

100 MULTI-ANTENNA COMMUNICATION SYSTEM

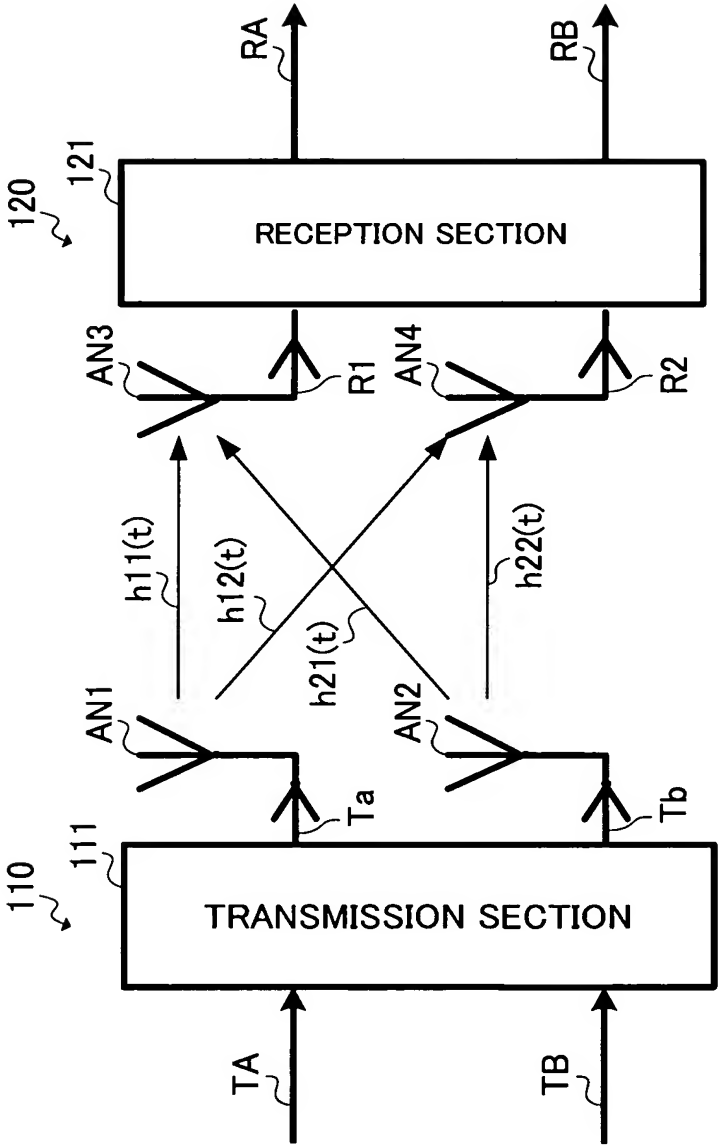


FIG.1

110 MULTI-ANTENNA TRANSMISSION APPARATUS

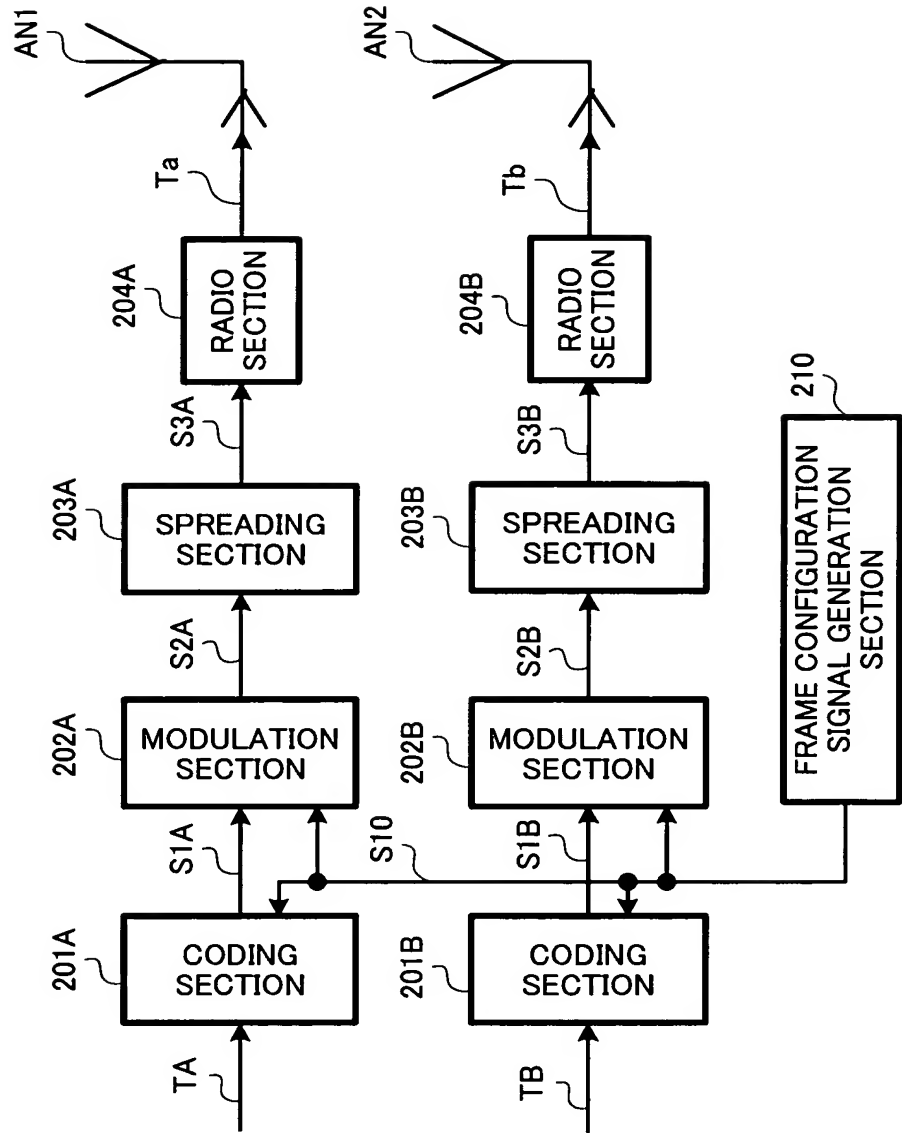


FIG.2

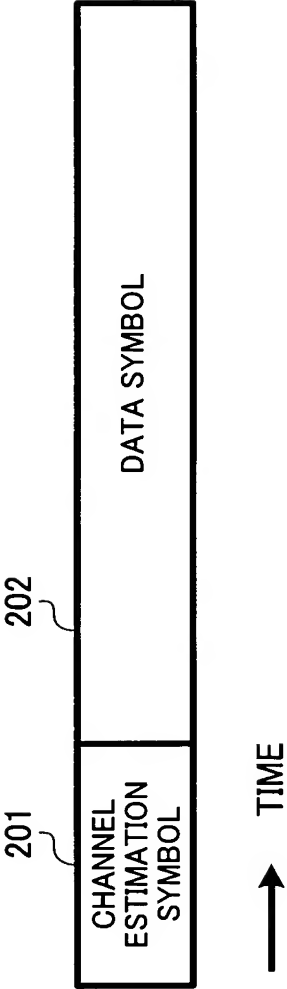


FIG.3

120 MULTI-ANTENNA RECEPTION APPARATUS

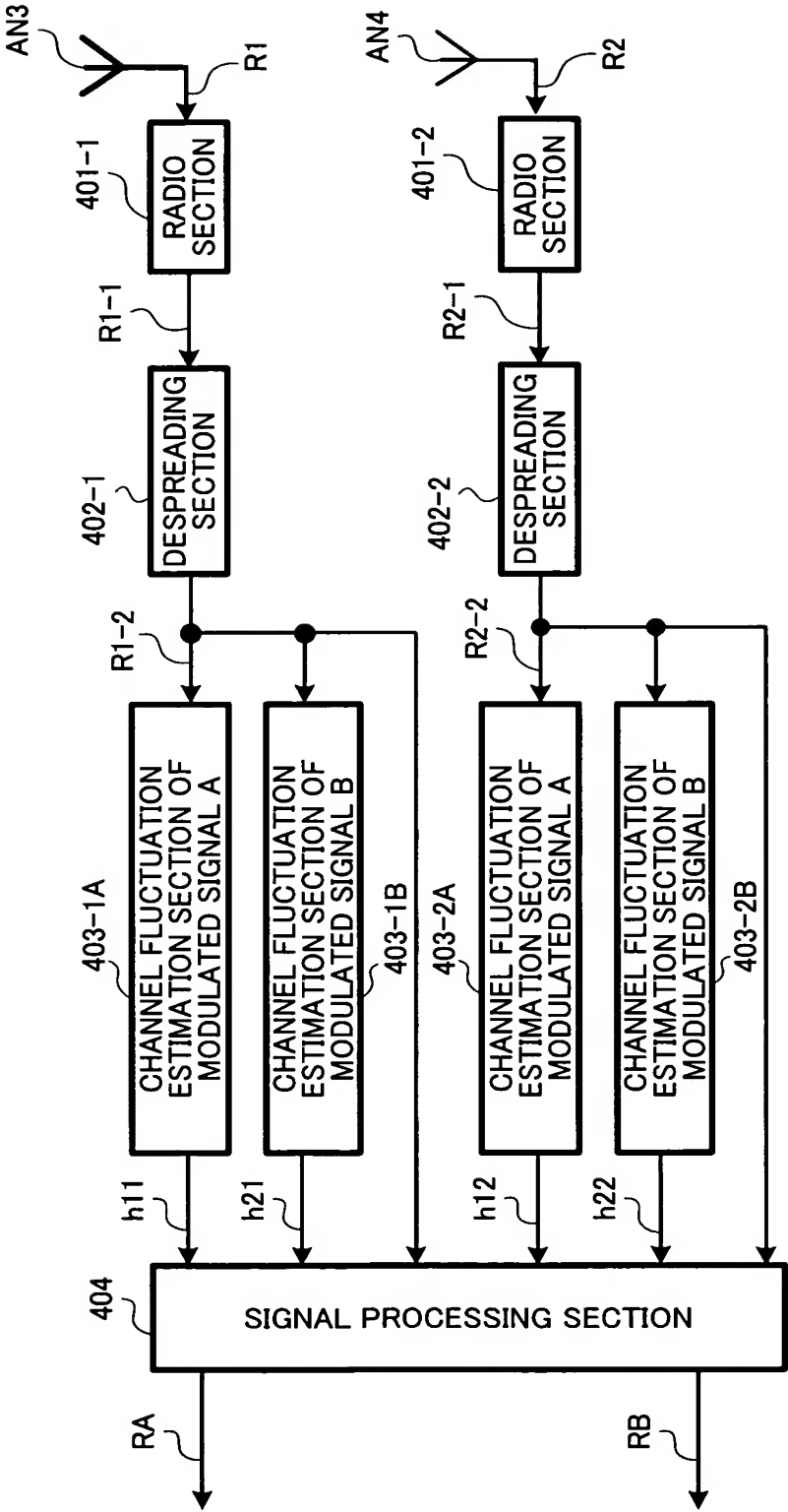


FIG.4

404 SIGNAL PROCESSING SECTION

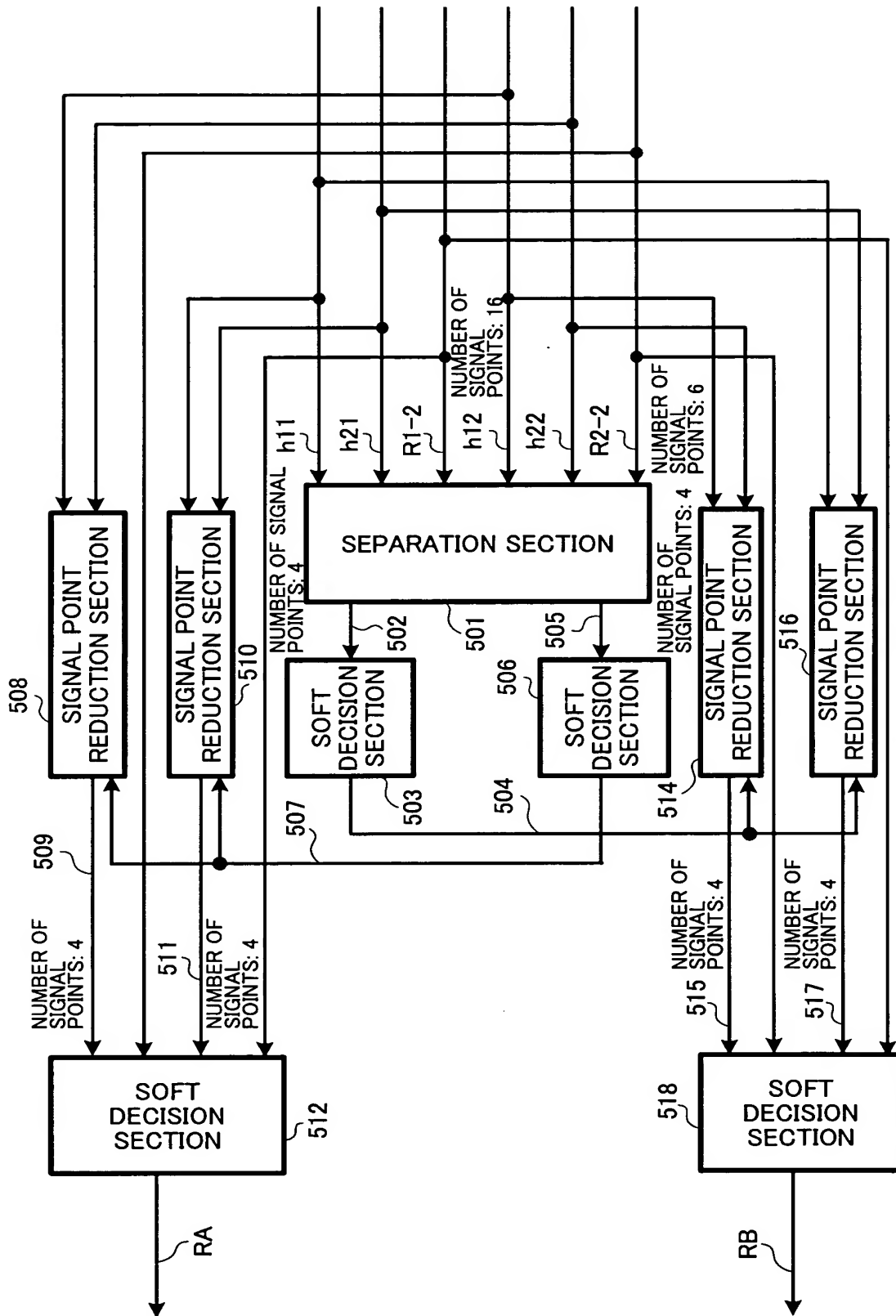


FIG.5

503 SOFT DECISION SECTION

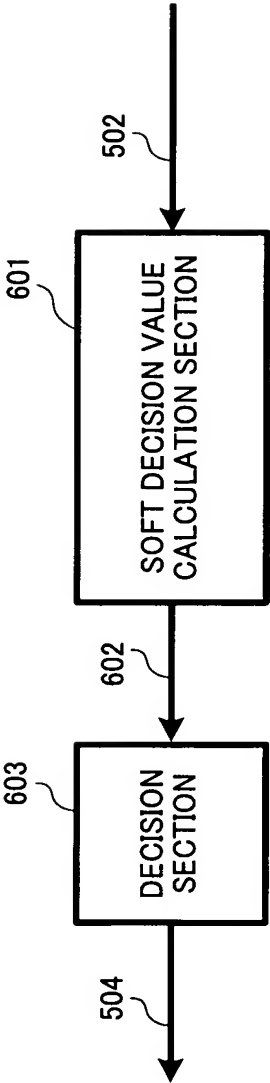


FIG.6

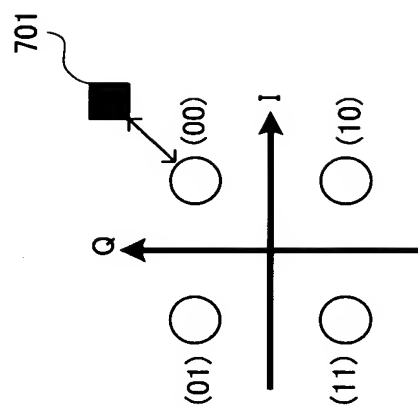


FIG.7

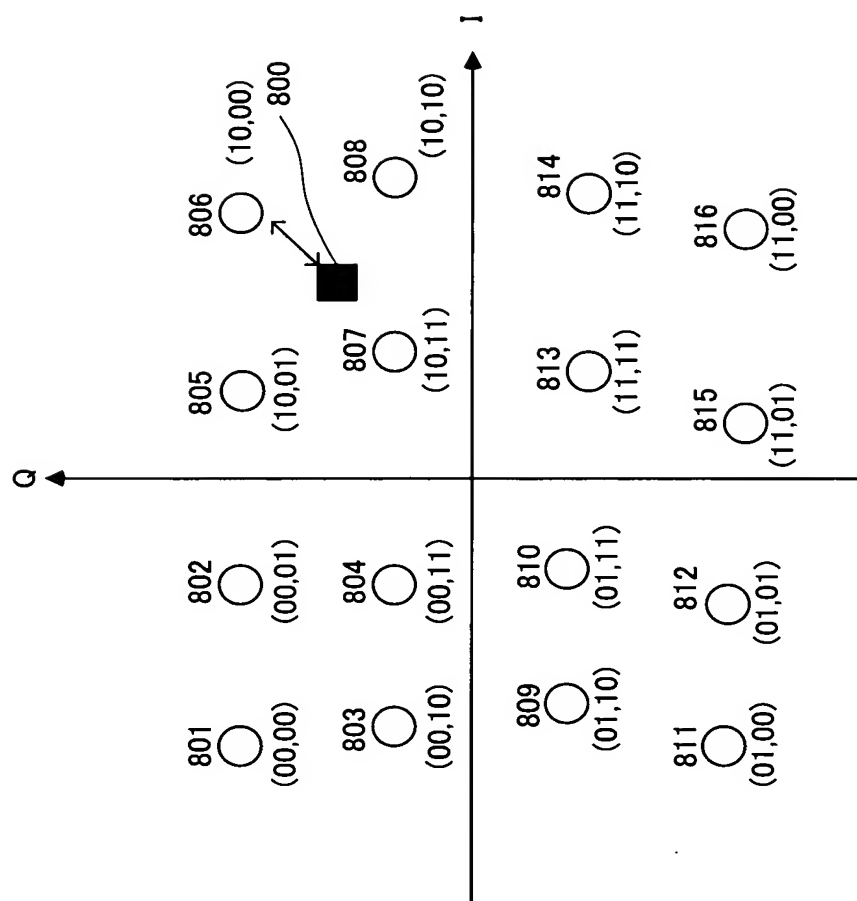


FIG.8

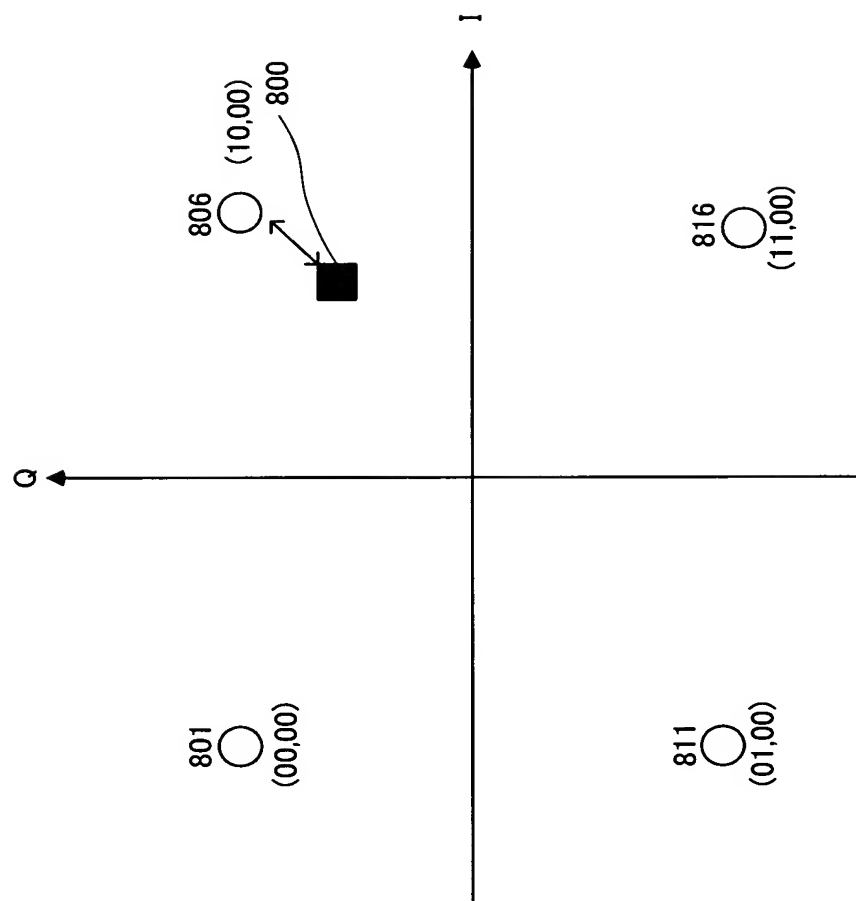


FIG.9

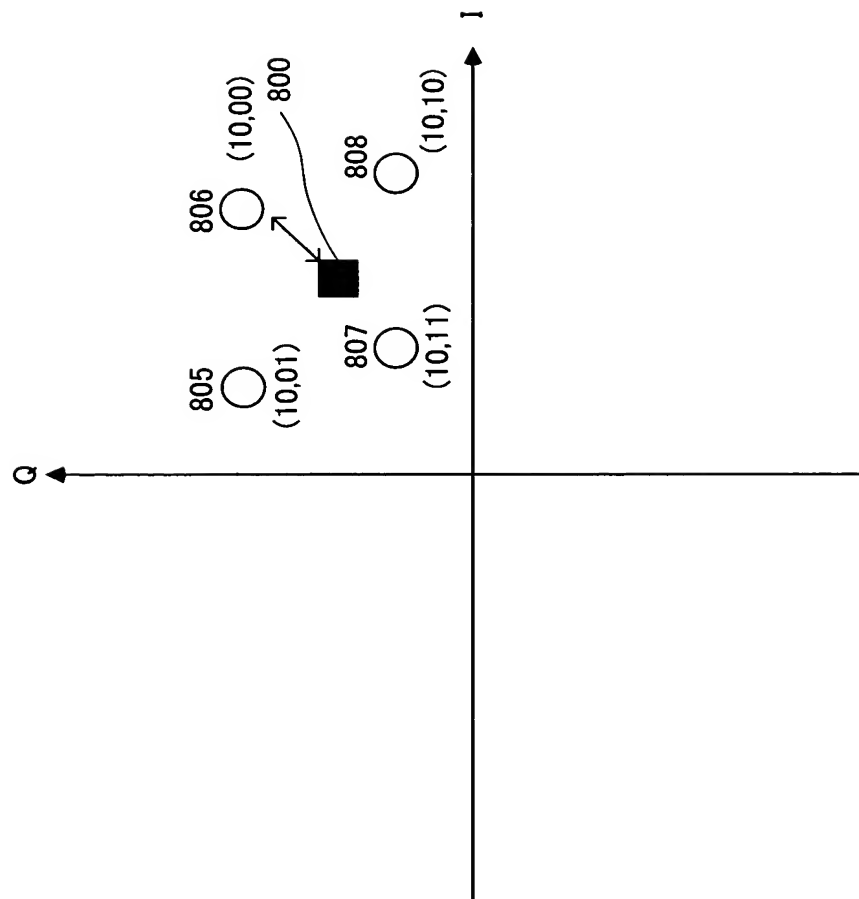


FIG.10

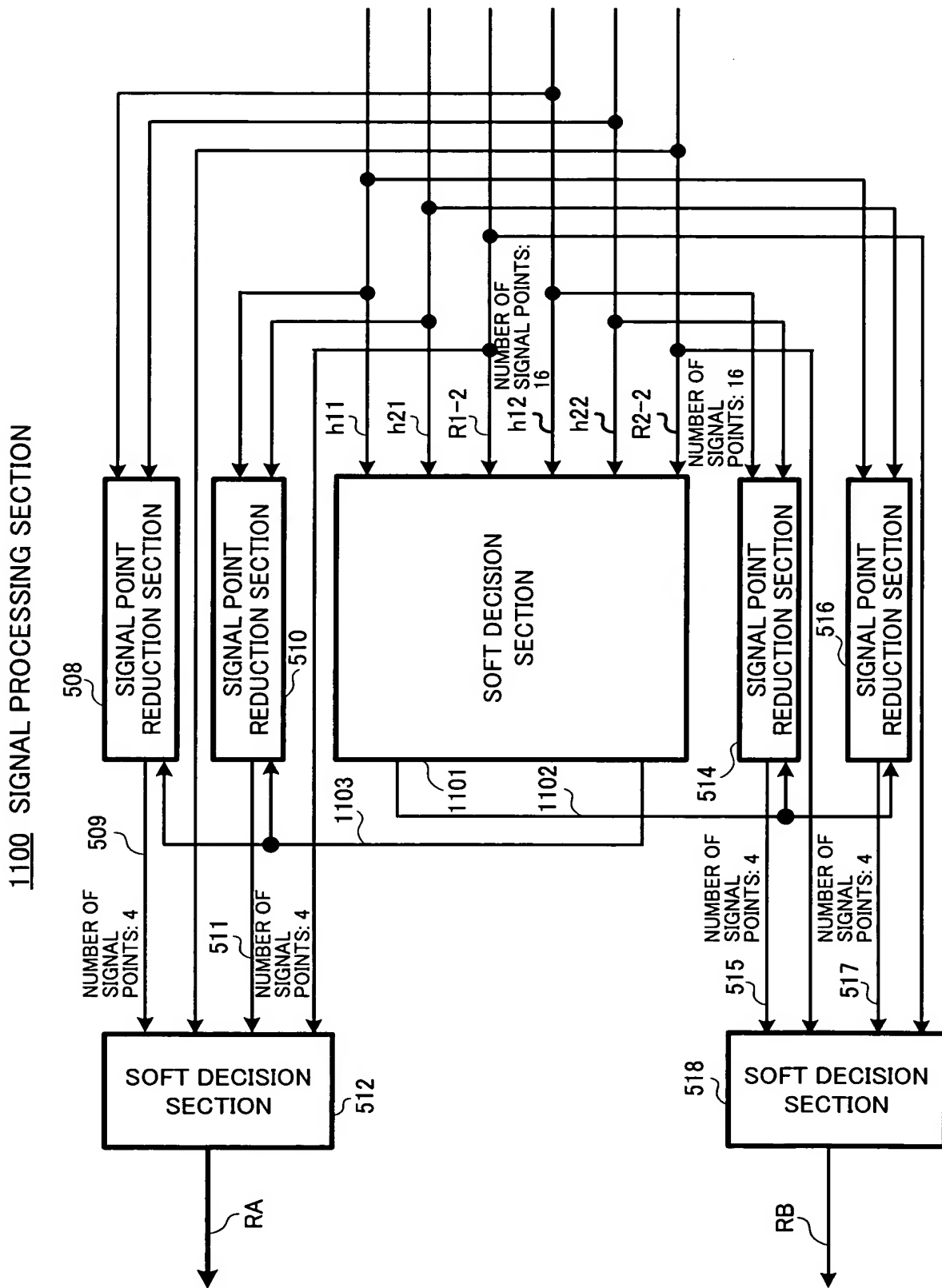


FIG.11

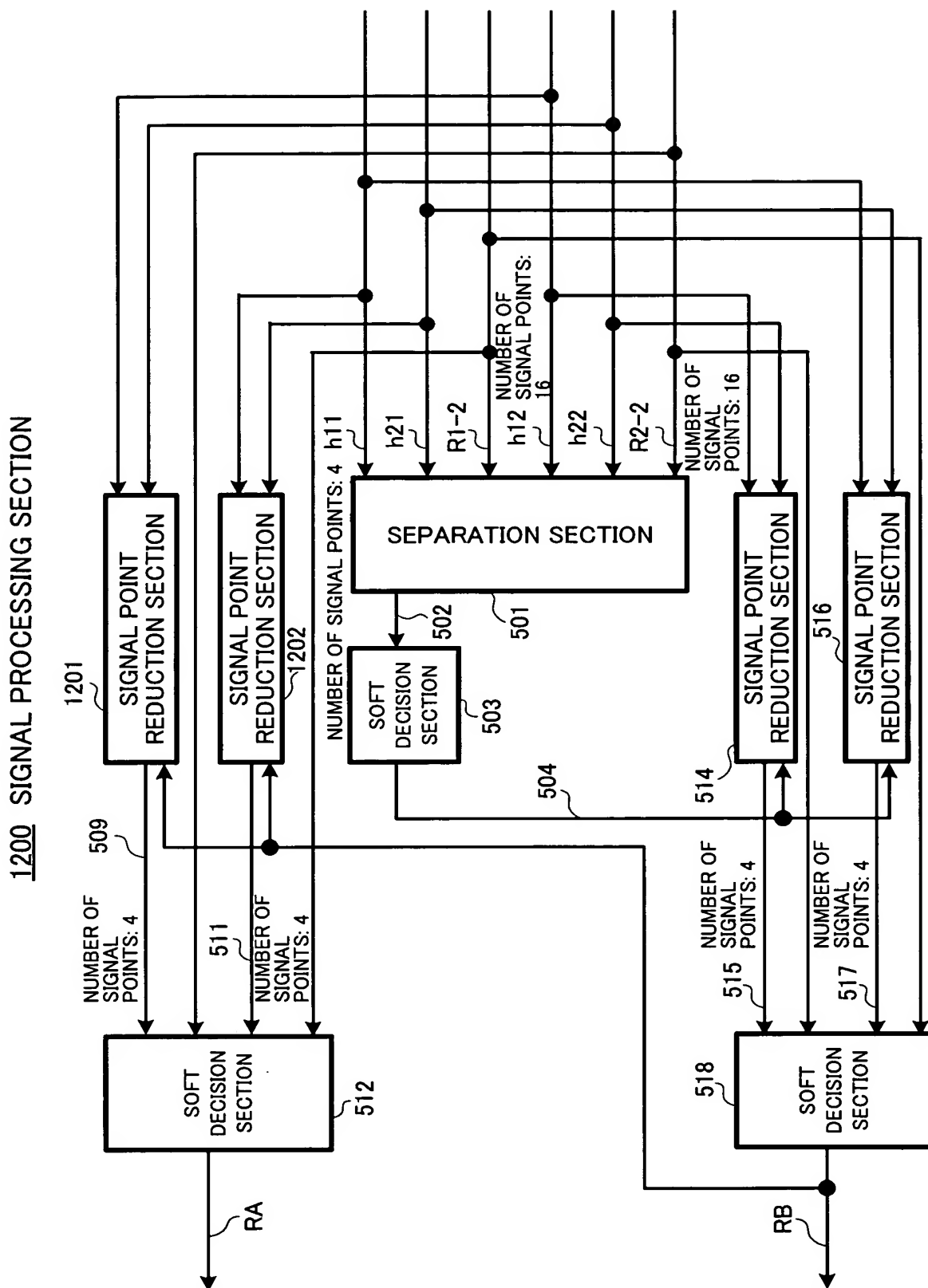


FIG.12

1300 SIGNAL PROCESSING SECTION

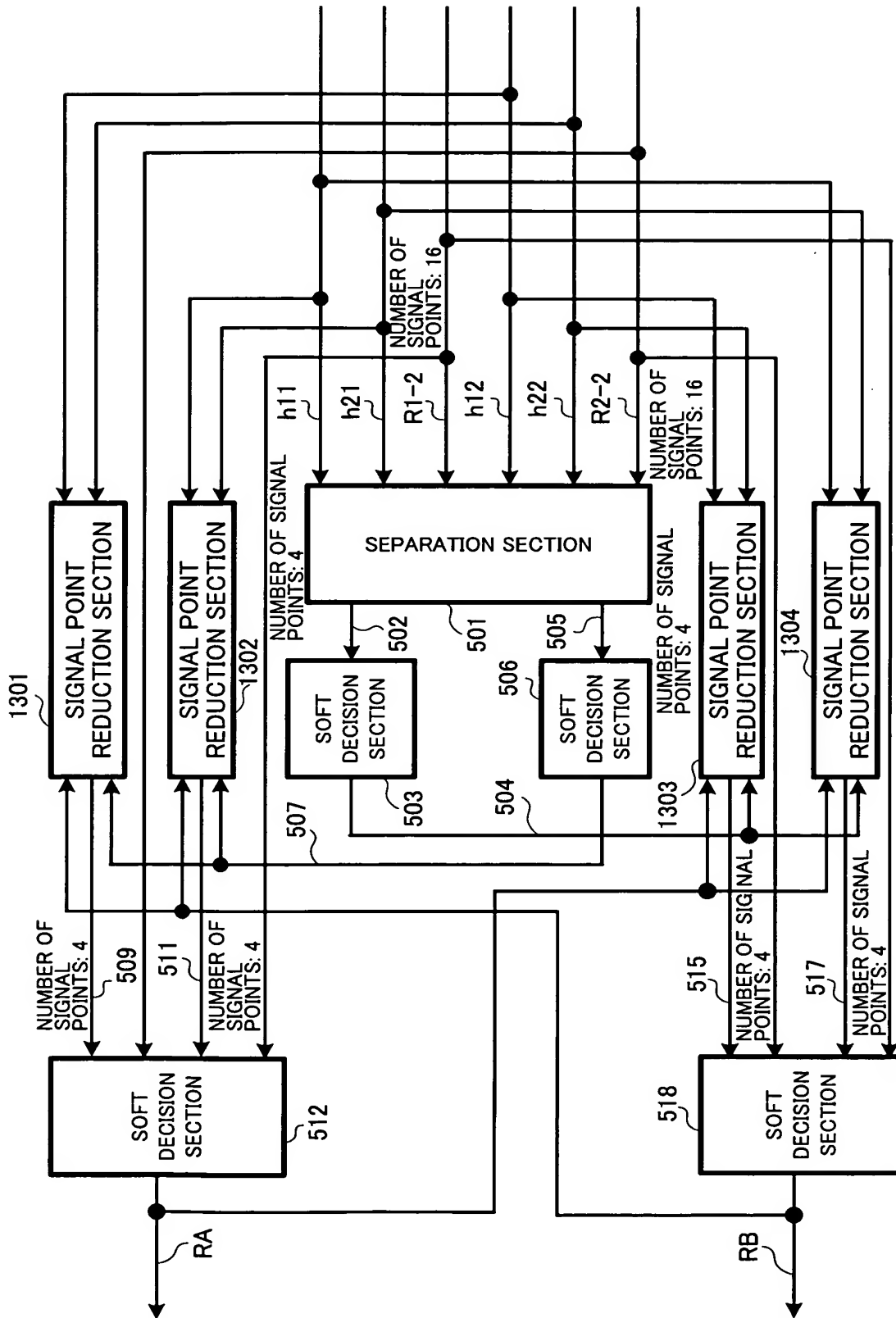


FIG.13

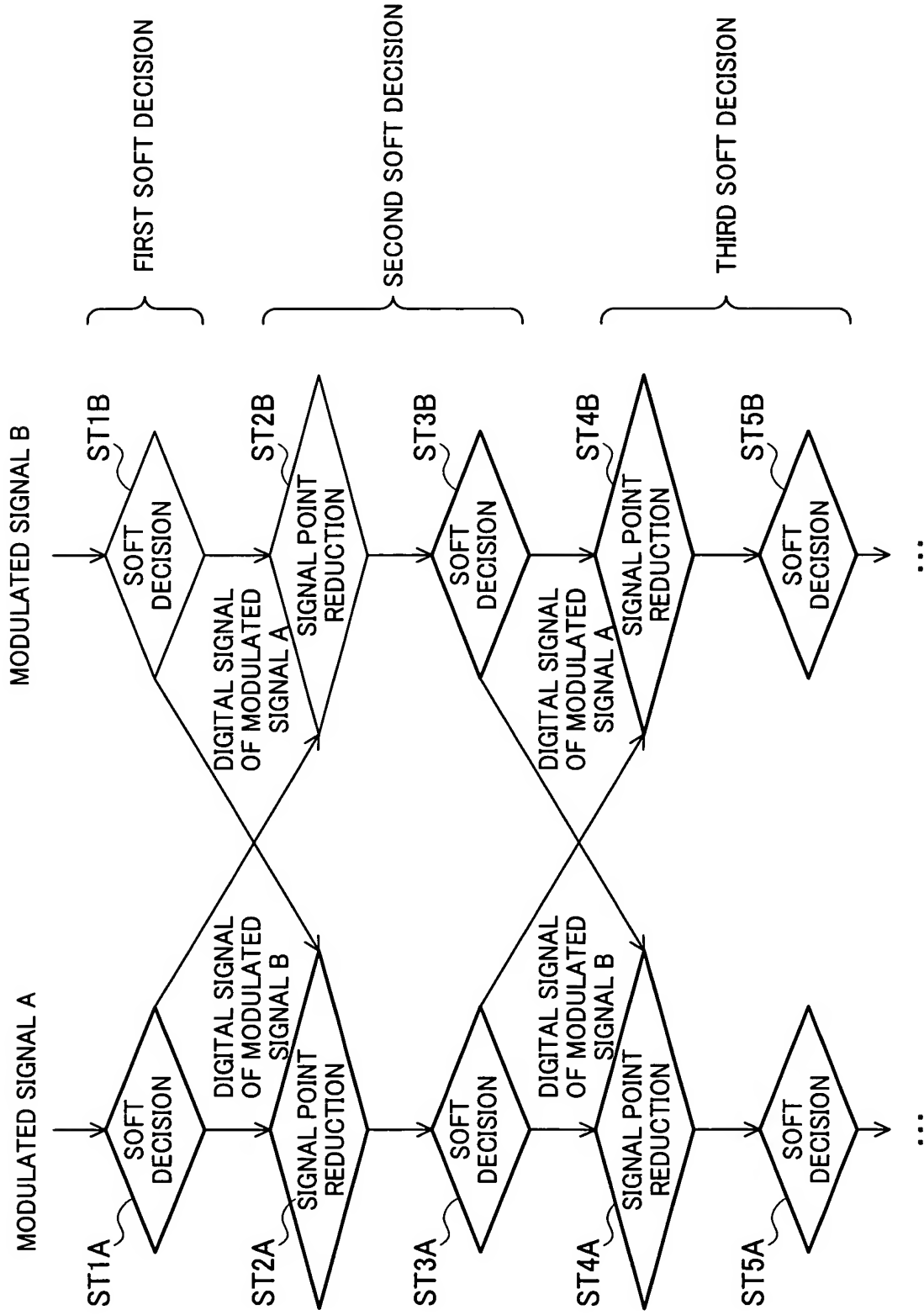


FIG.14

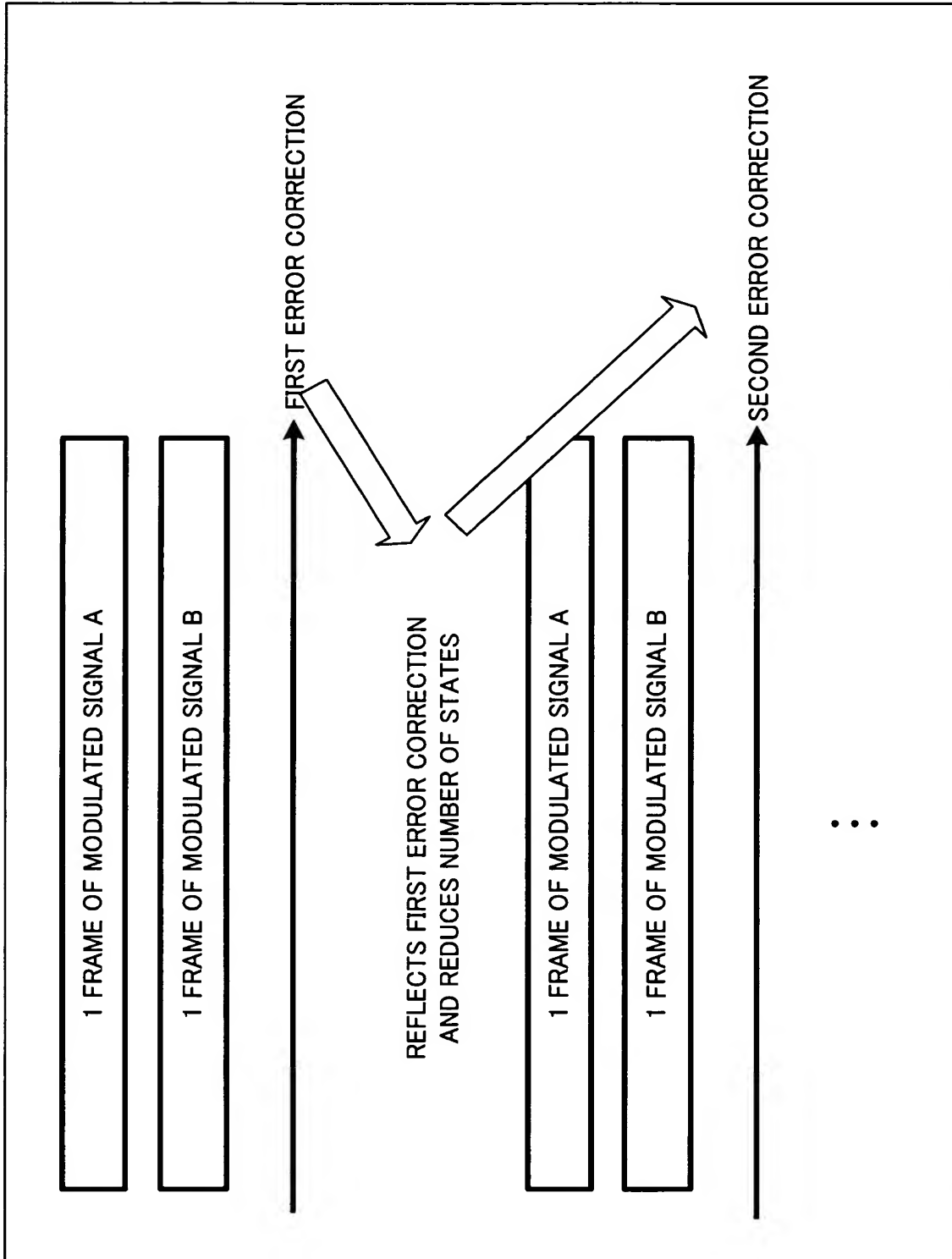


FIG.15

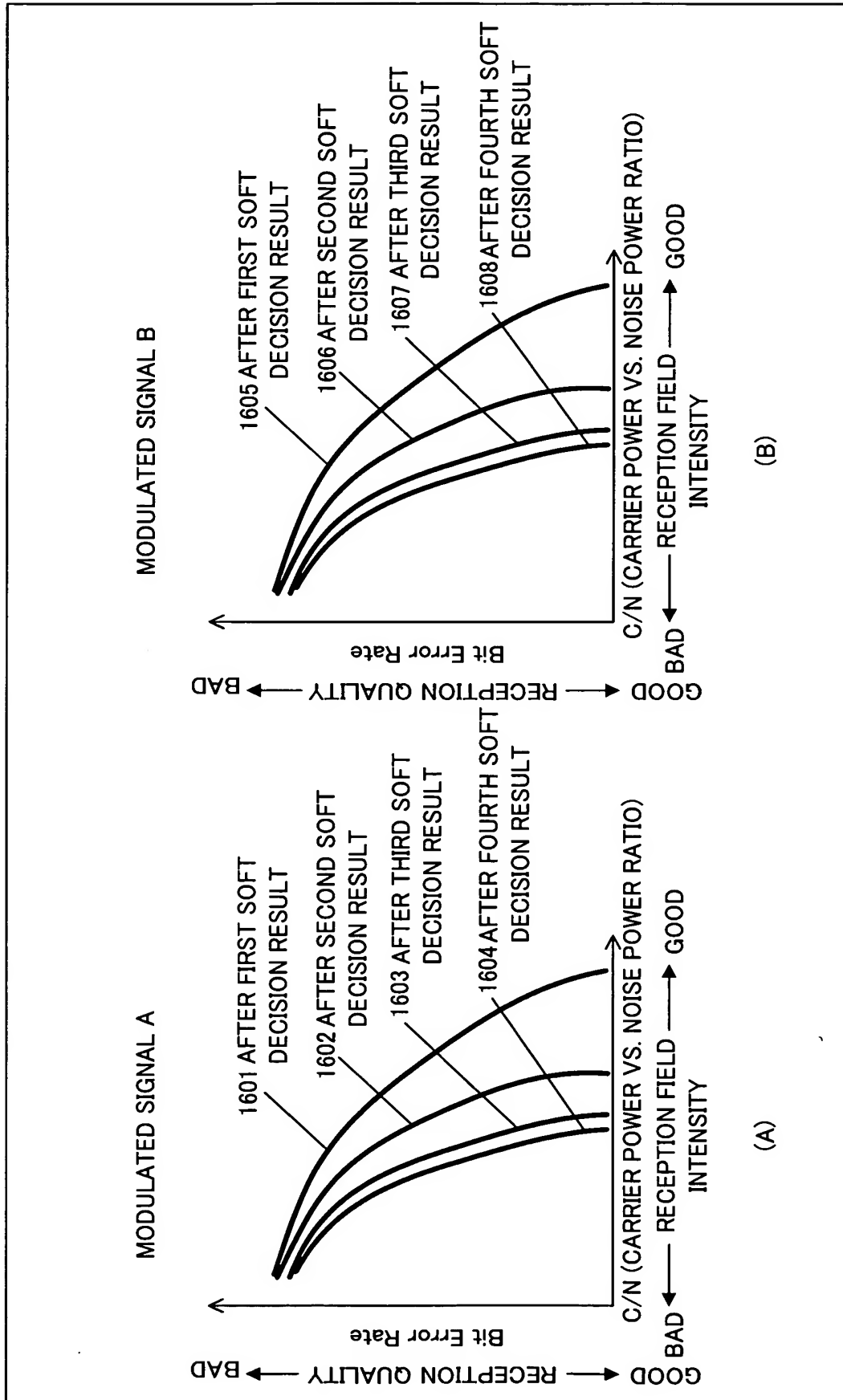


FIG.16

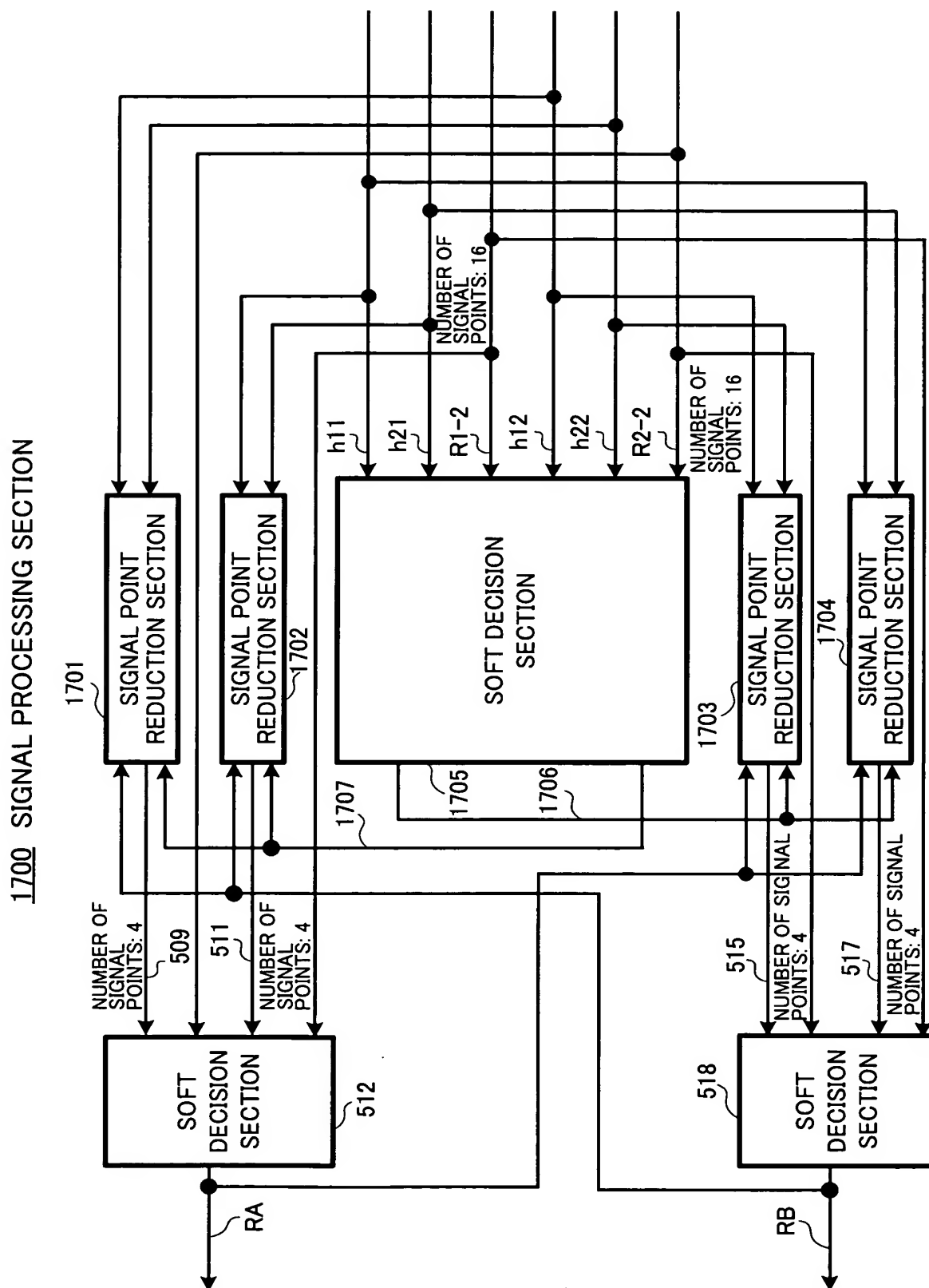


FIG.17

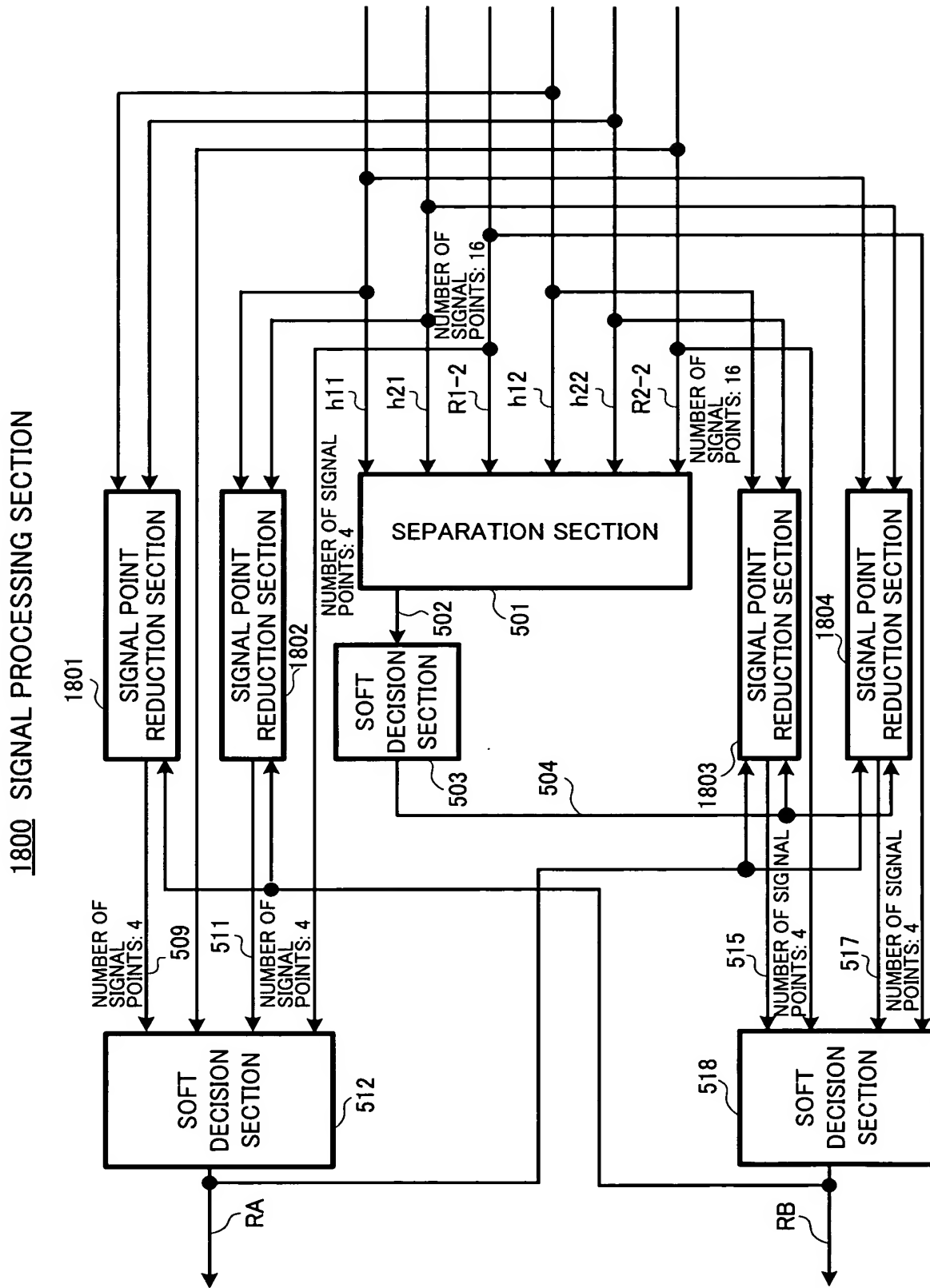


FIG.18

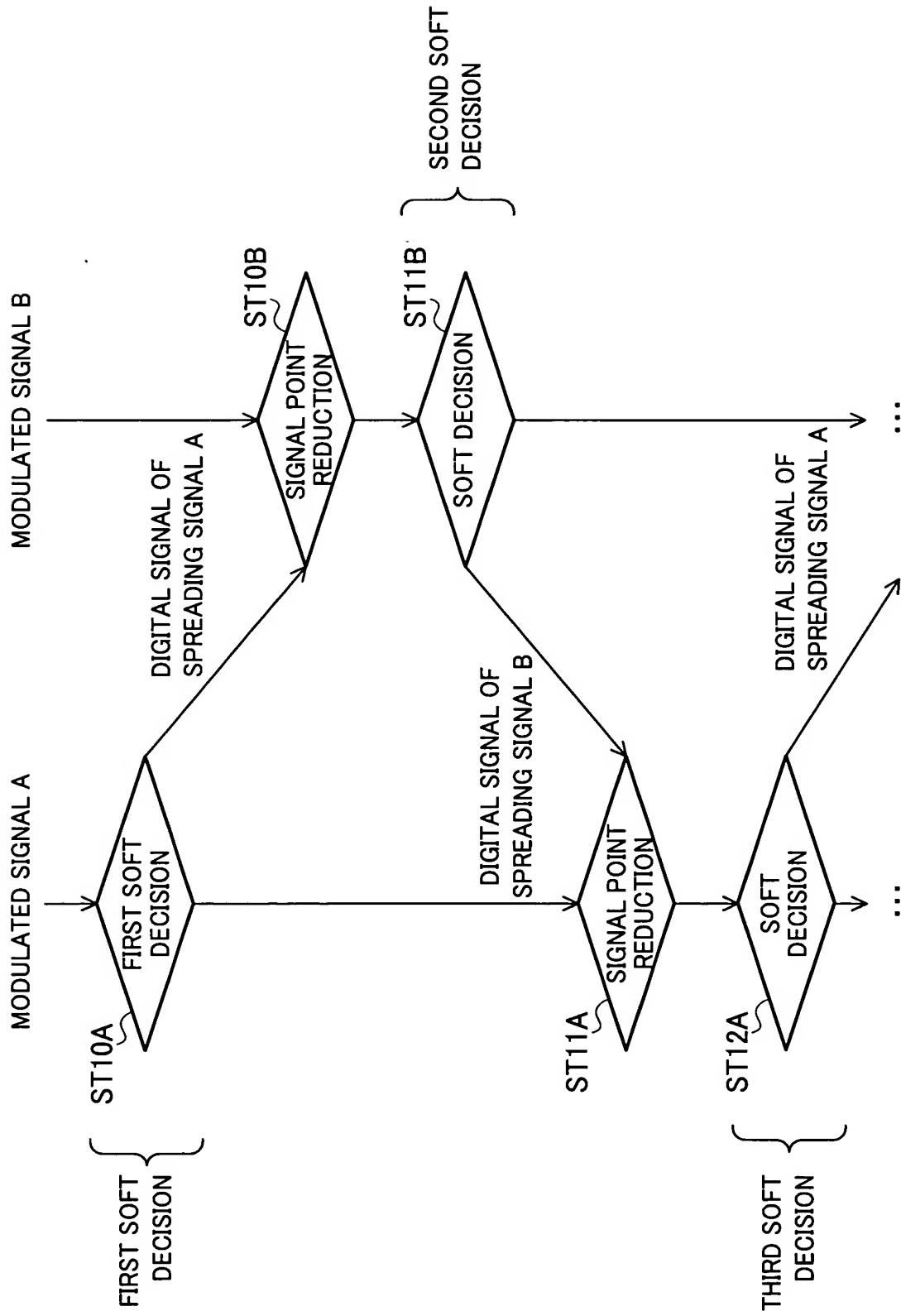


FIG.19

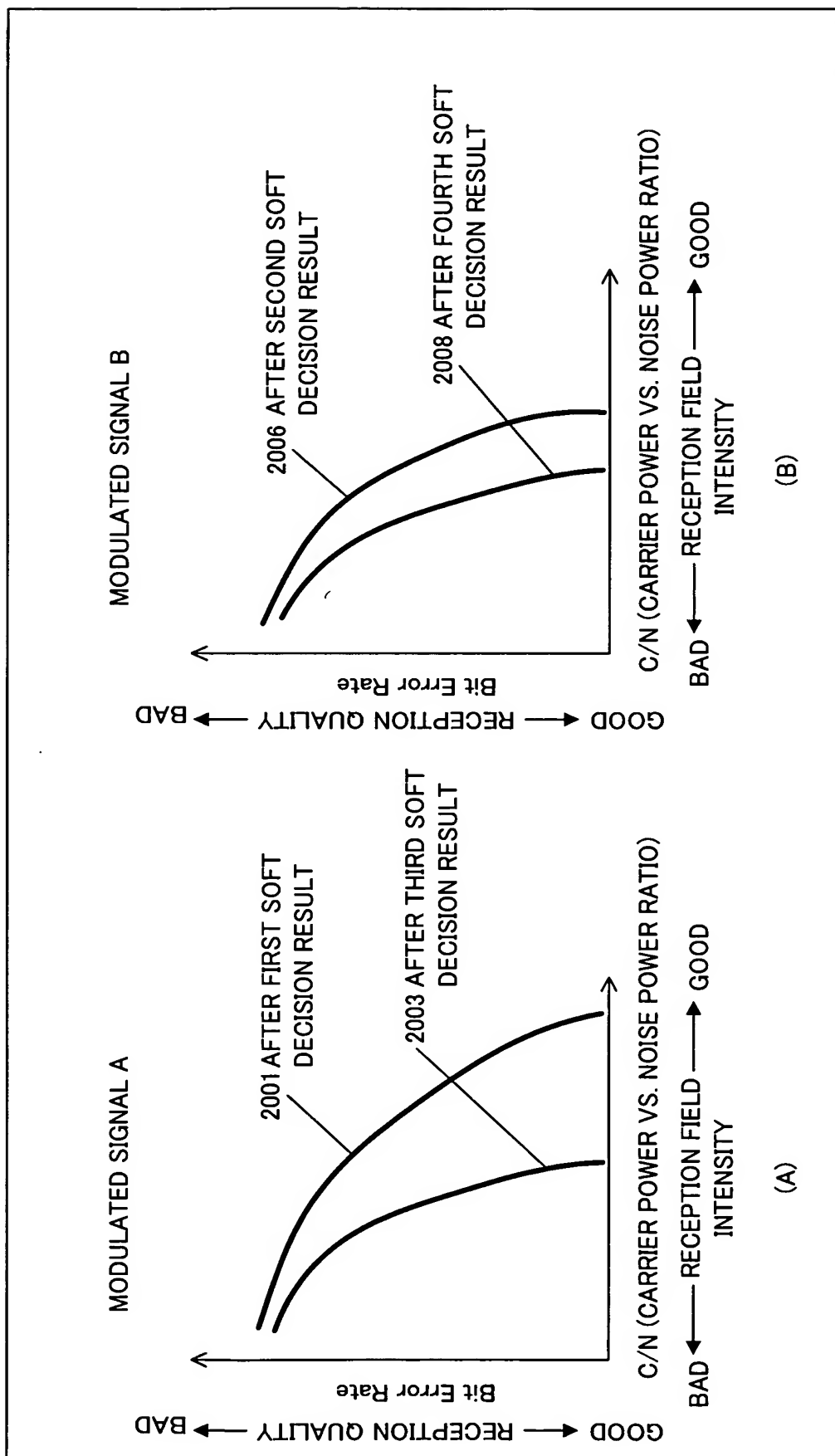


FIG.20

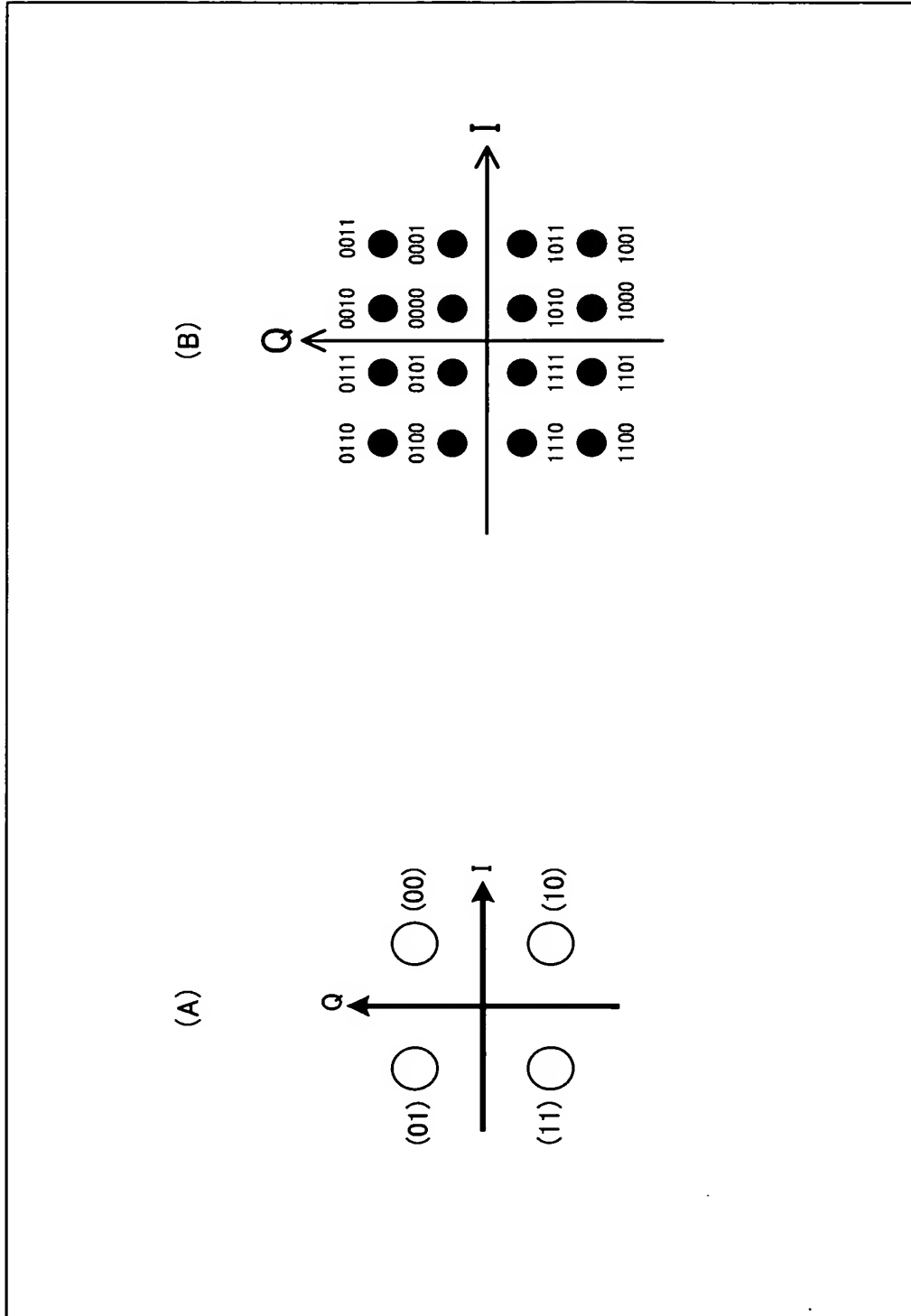


FIG.21

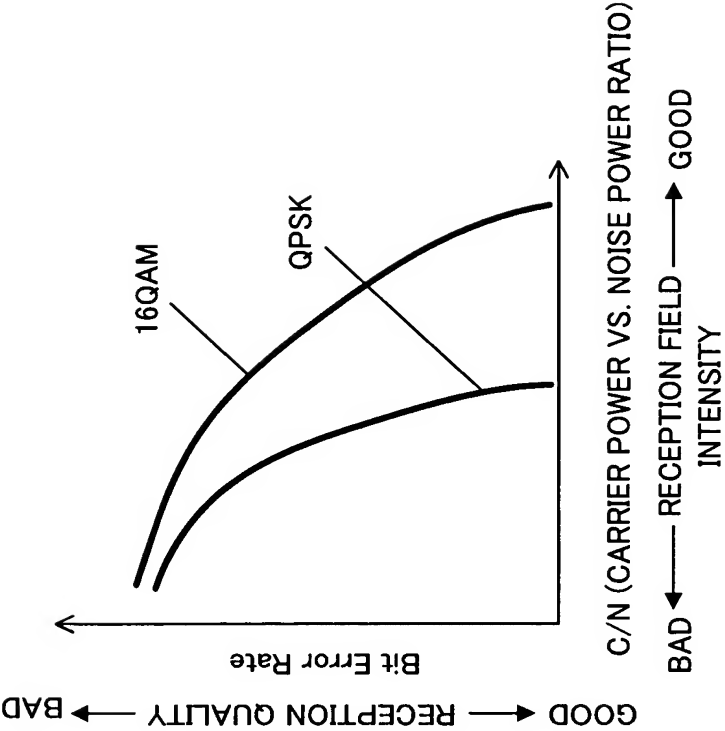


FIG.22

2300 MULTI-ANTENNA TRANSMISSION APPARATUS

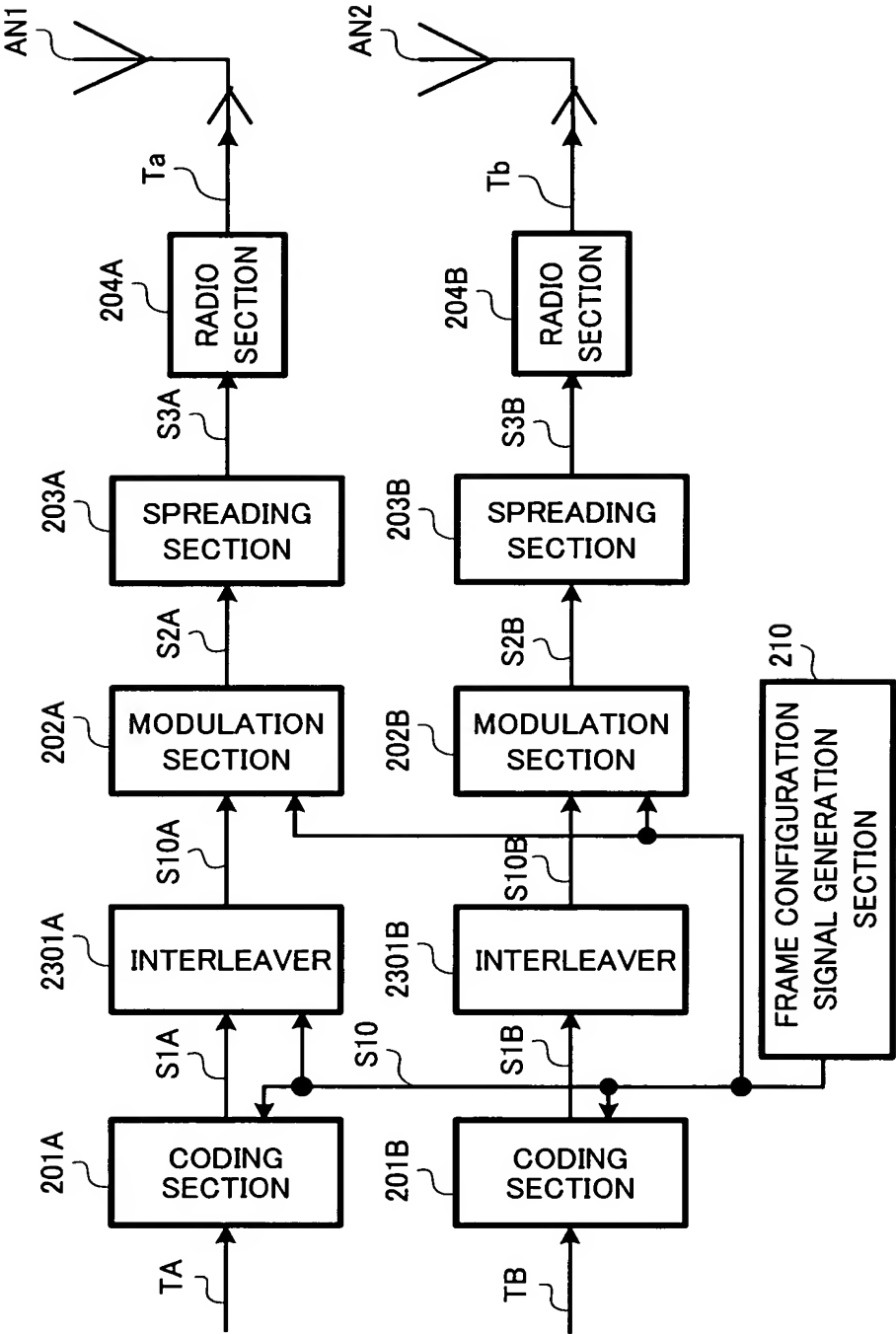


FIG.23

2400 SIGNAL PROCESSING SECTION

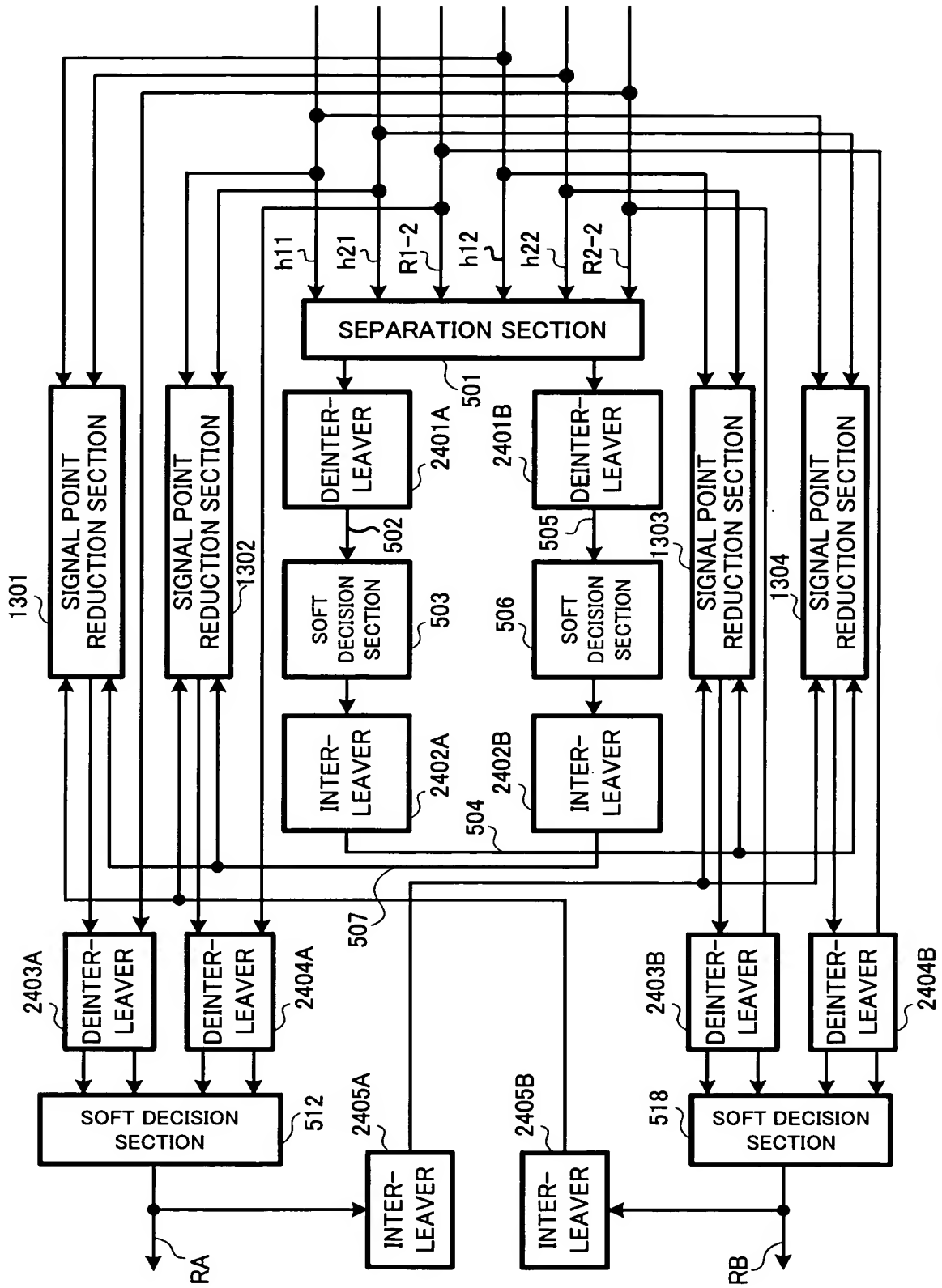


FIG.24

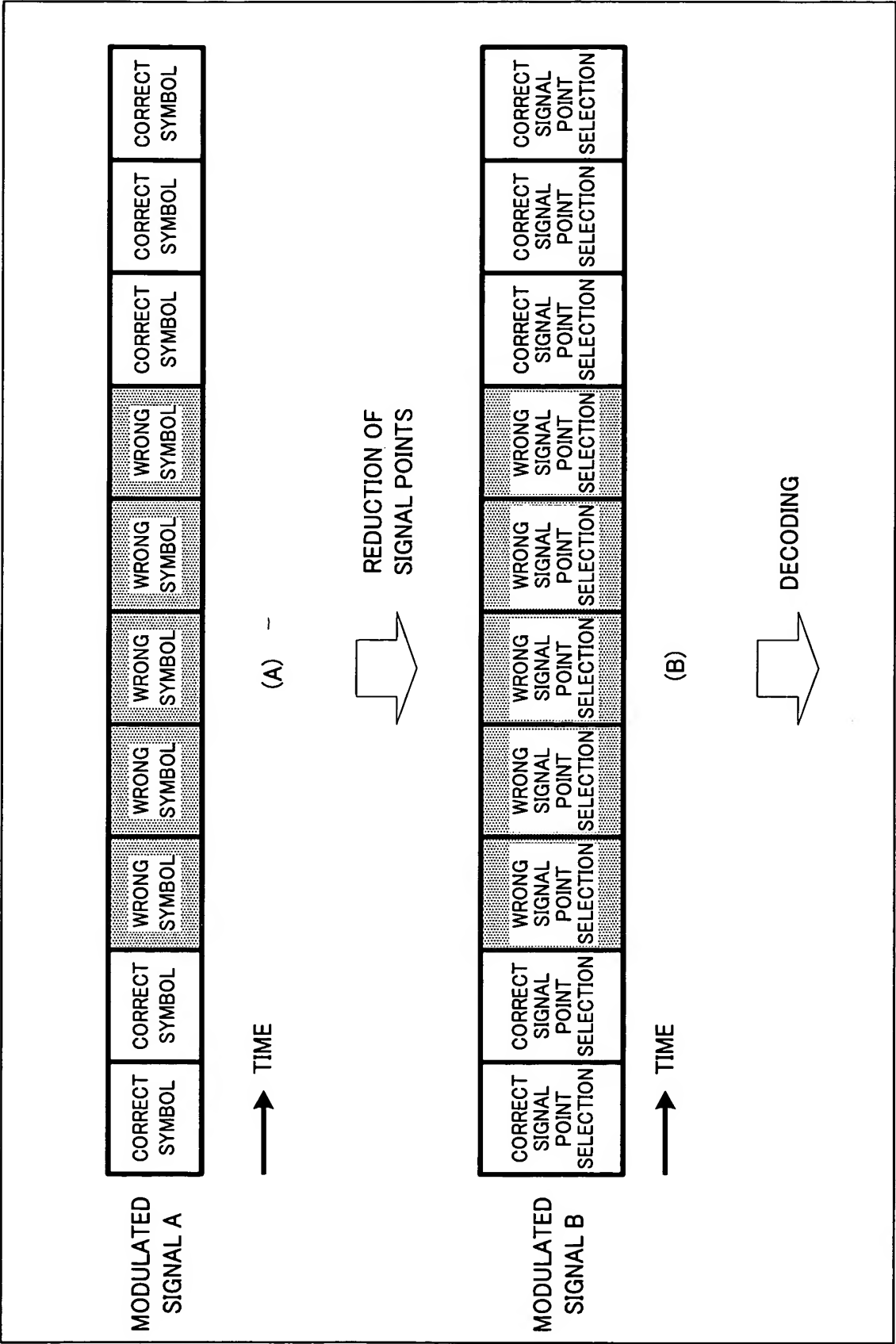


FIG.25

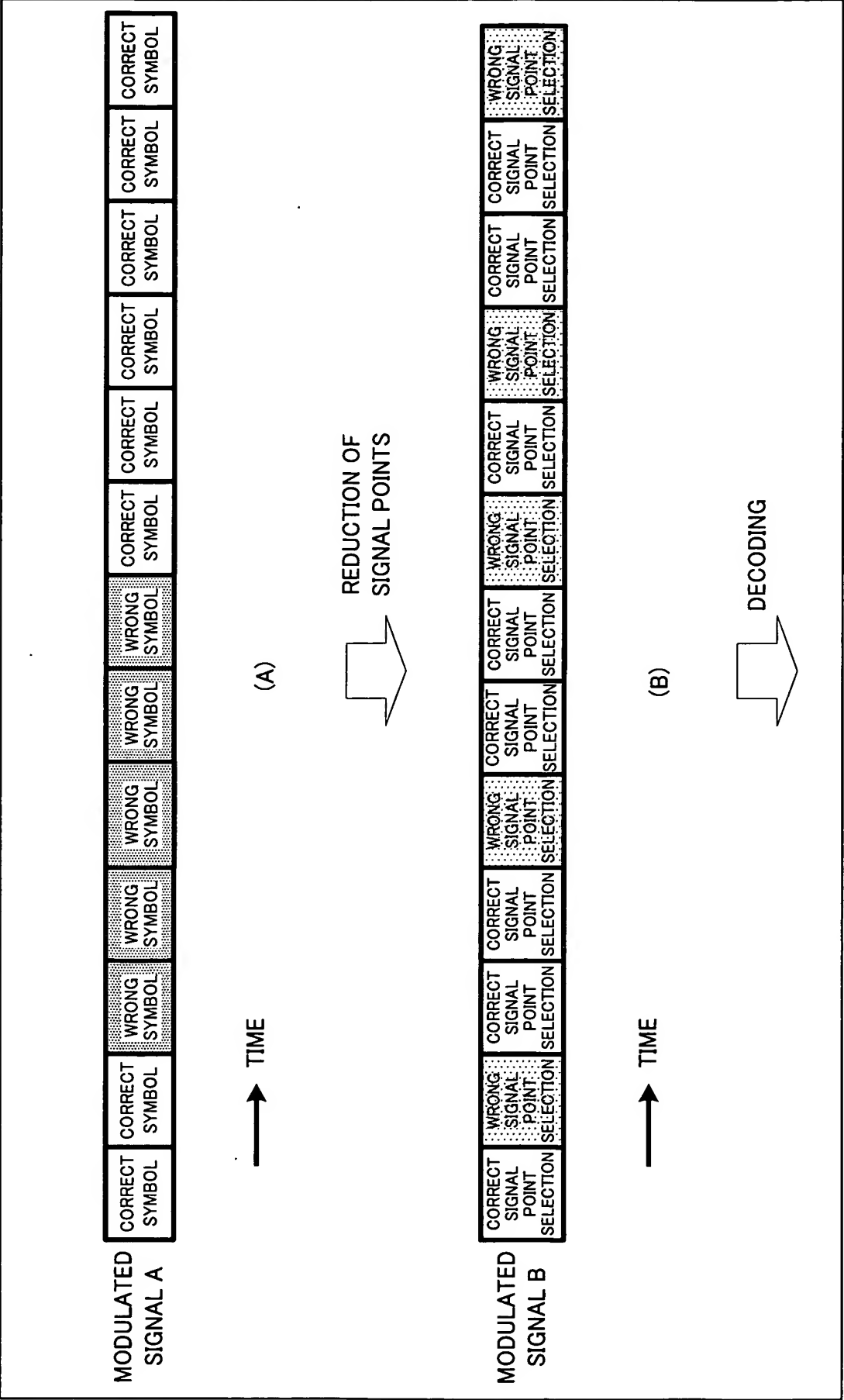


FIG.26

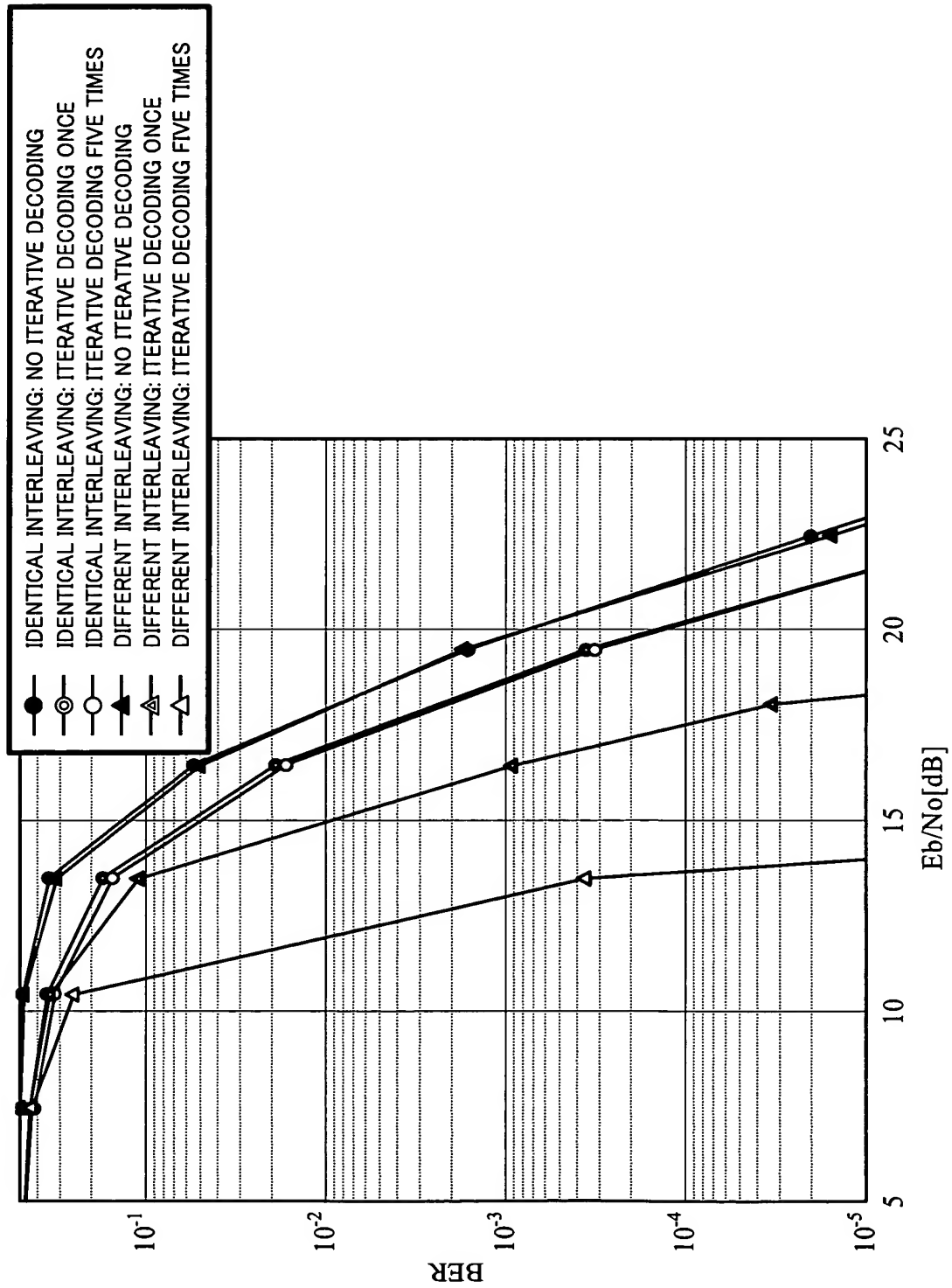


FIG.27

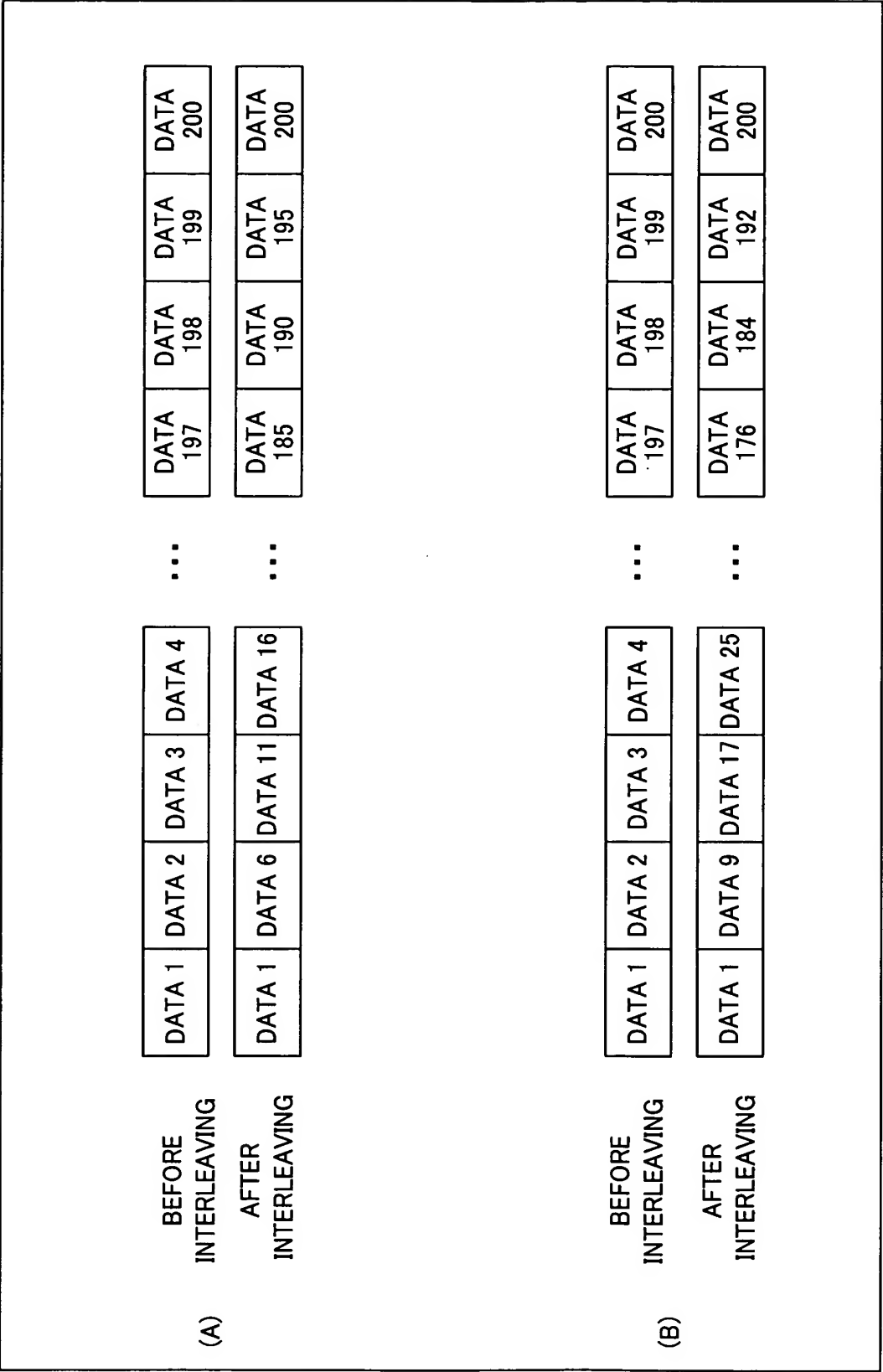


FIG.28

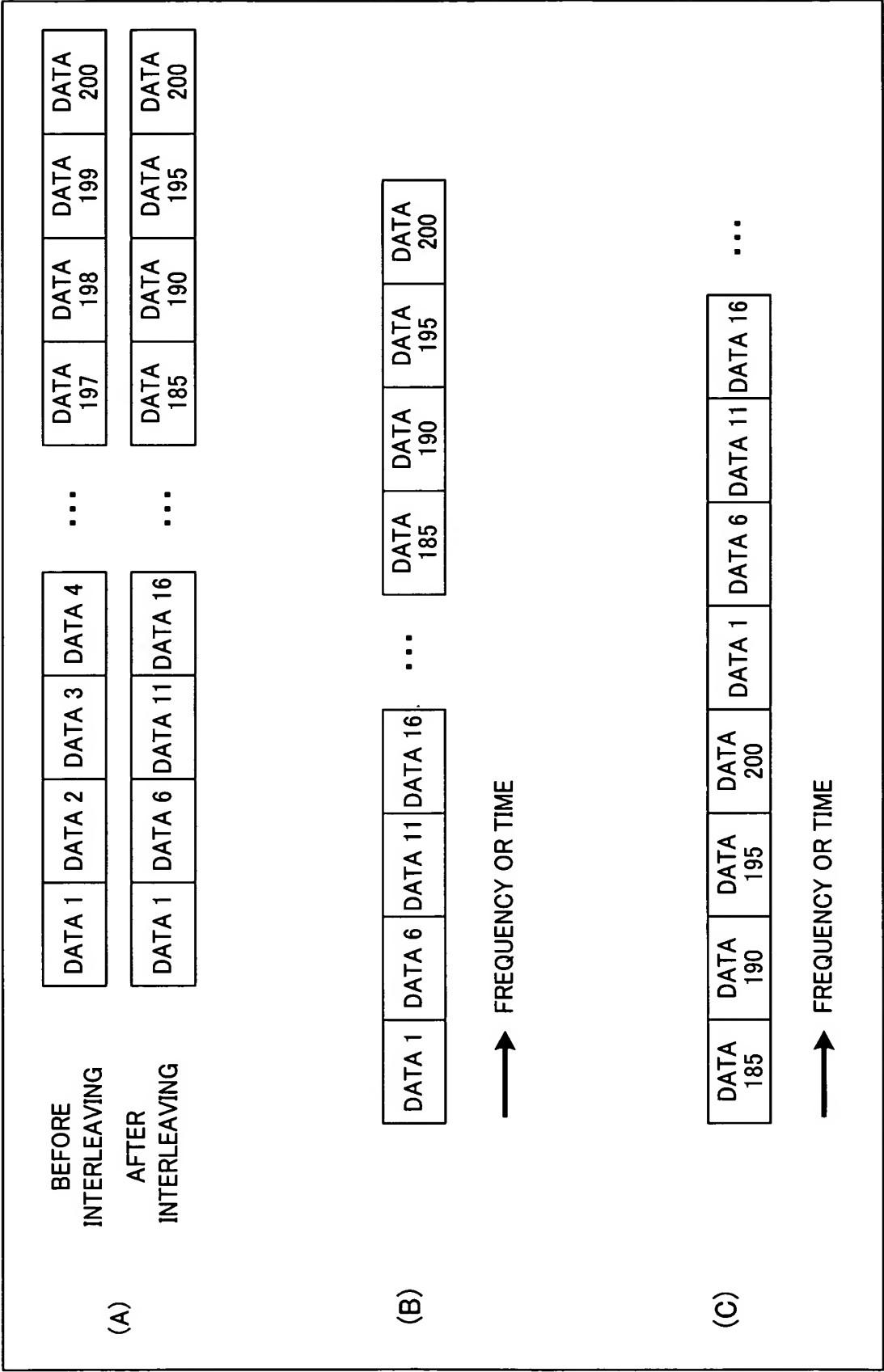


FIG.29

2700 MULTI-ANTENNA TRANSMISSION APPARATUS

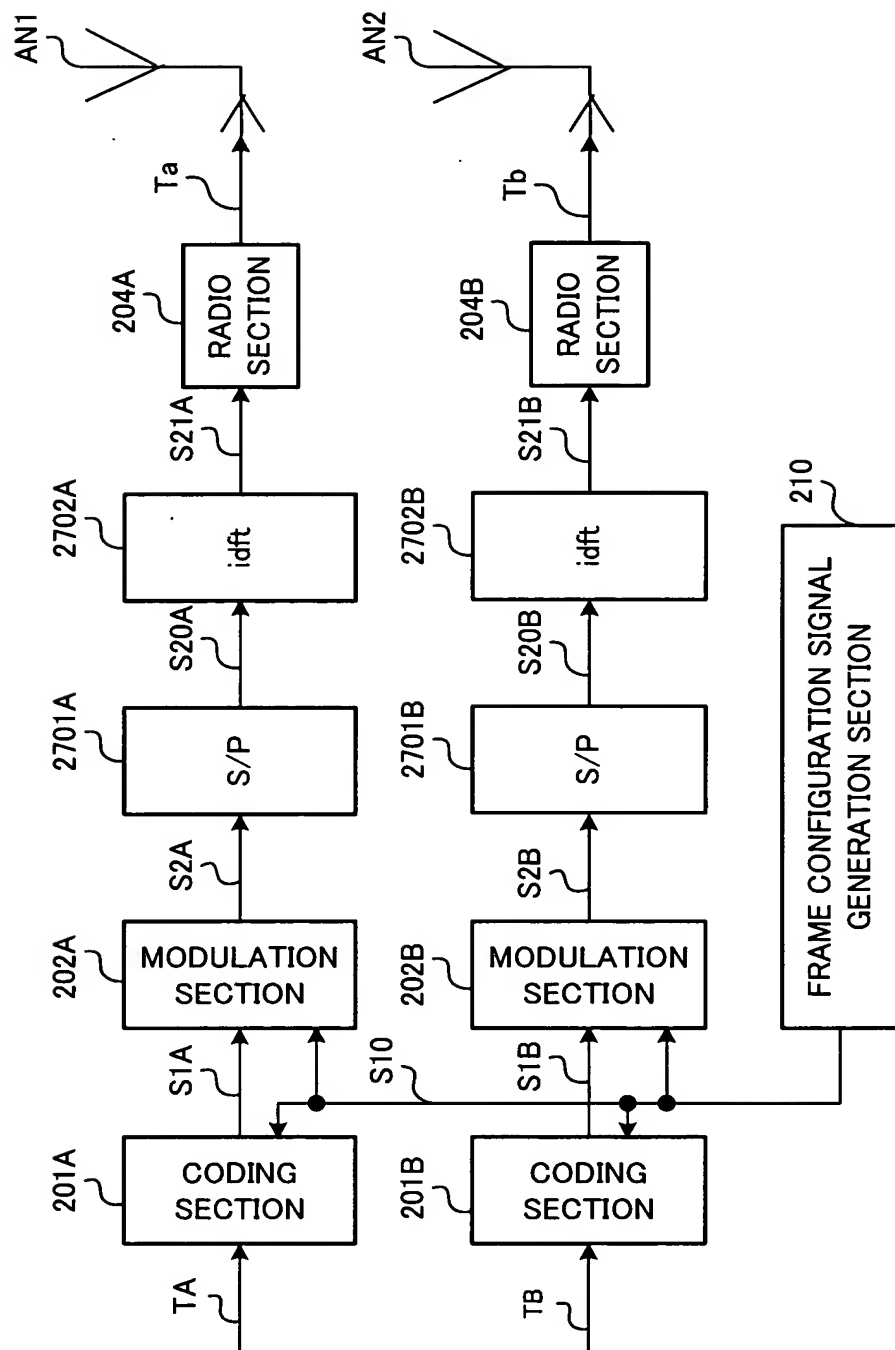


FIG.30

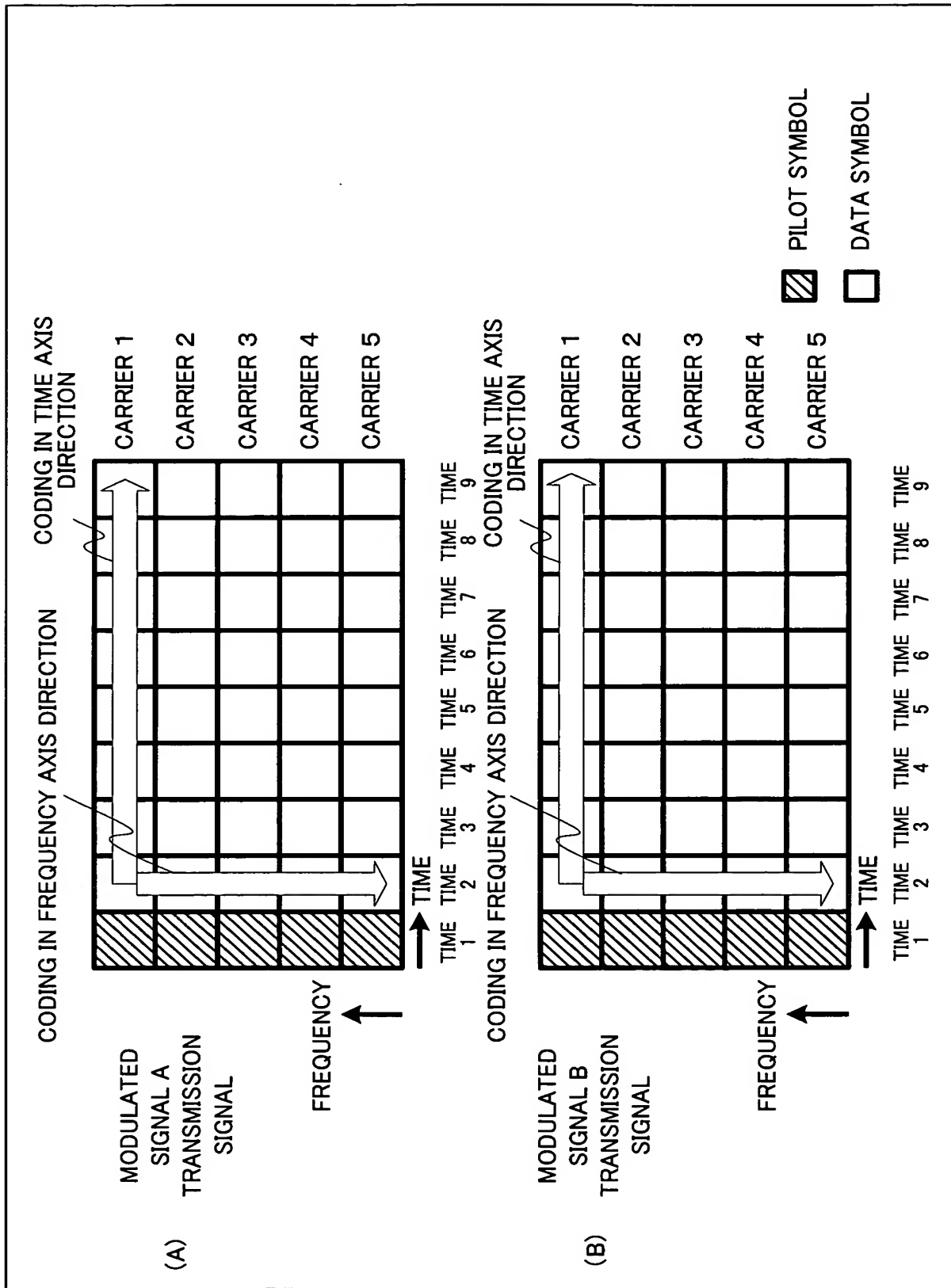


FIG.31

2900 MULTI-ANTENNA TRANSMISSION APPARATUS

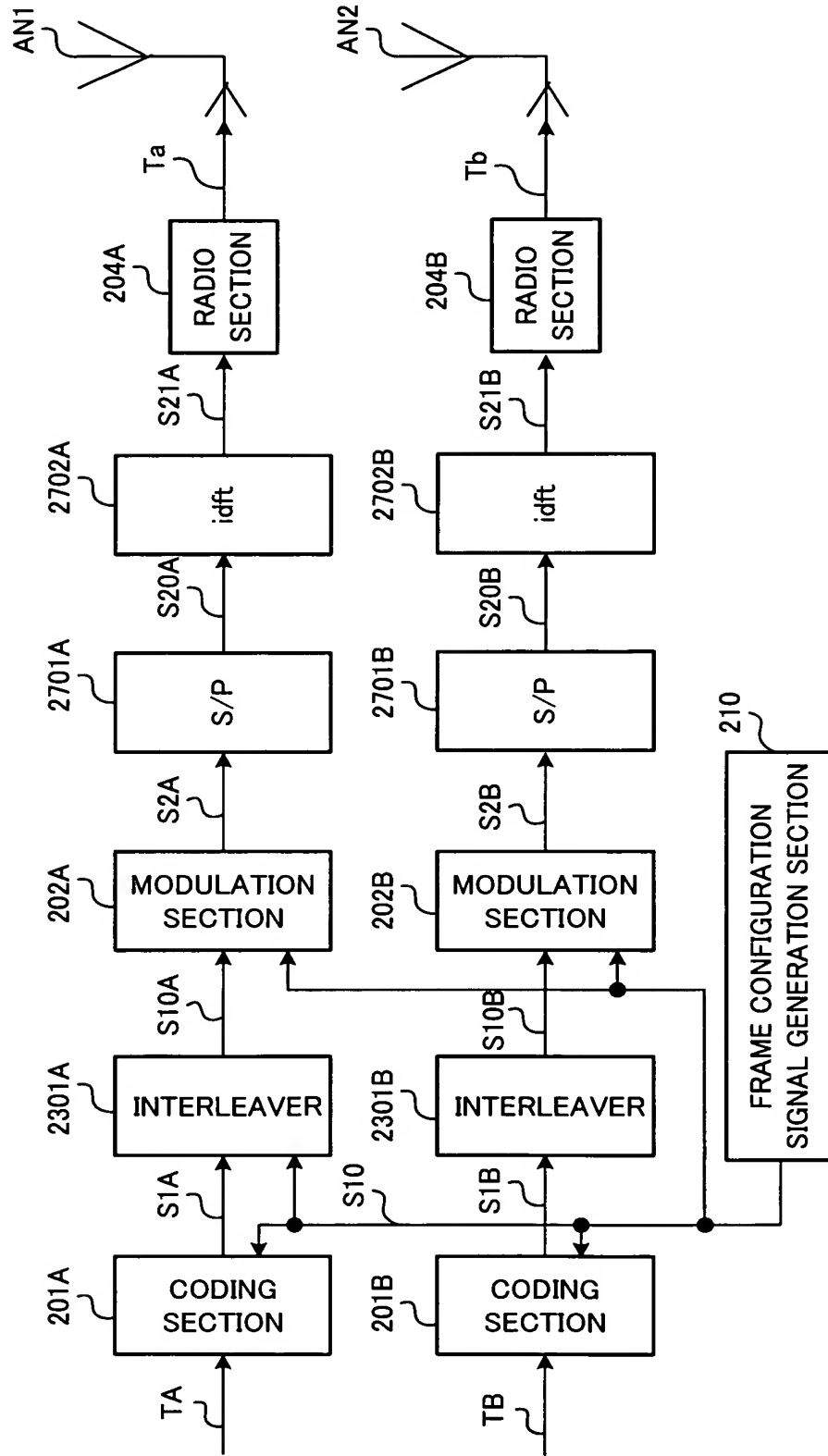


FIG.32

3000 MULTI-ANTENNA RECEPTION APPARATUS

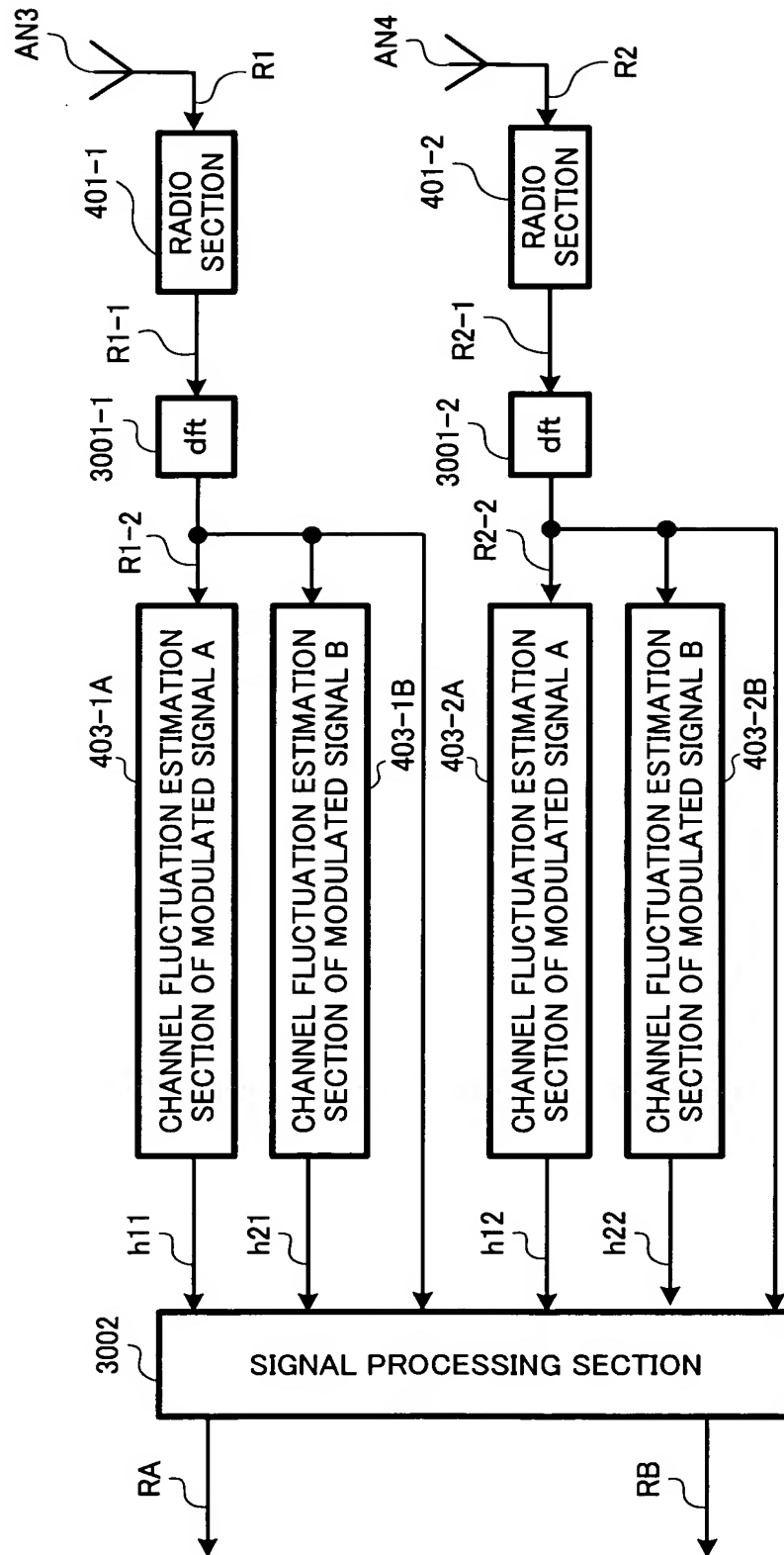


FIG.33

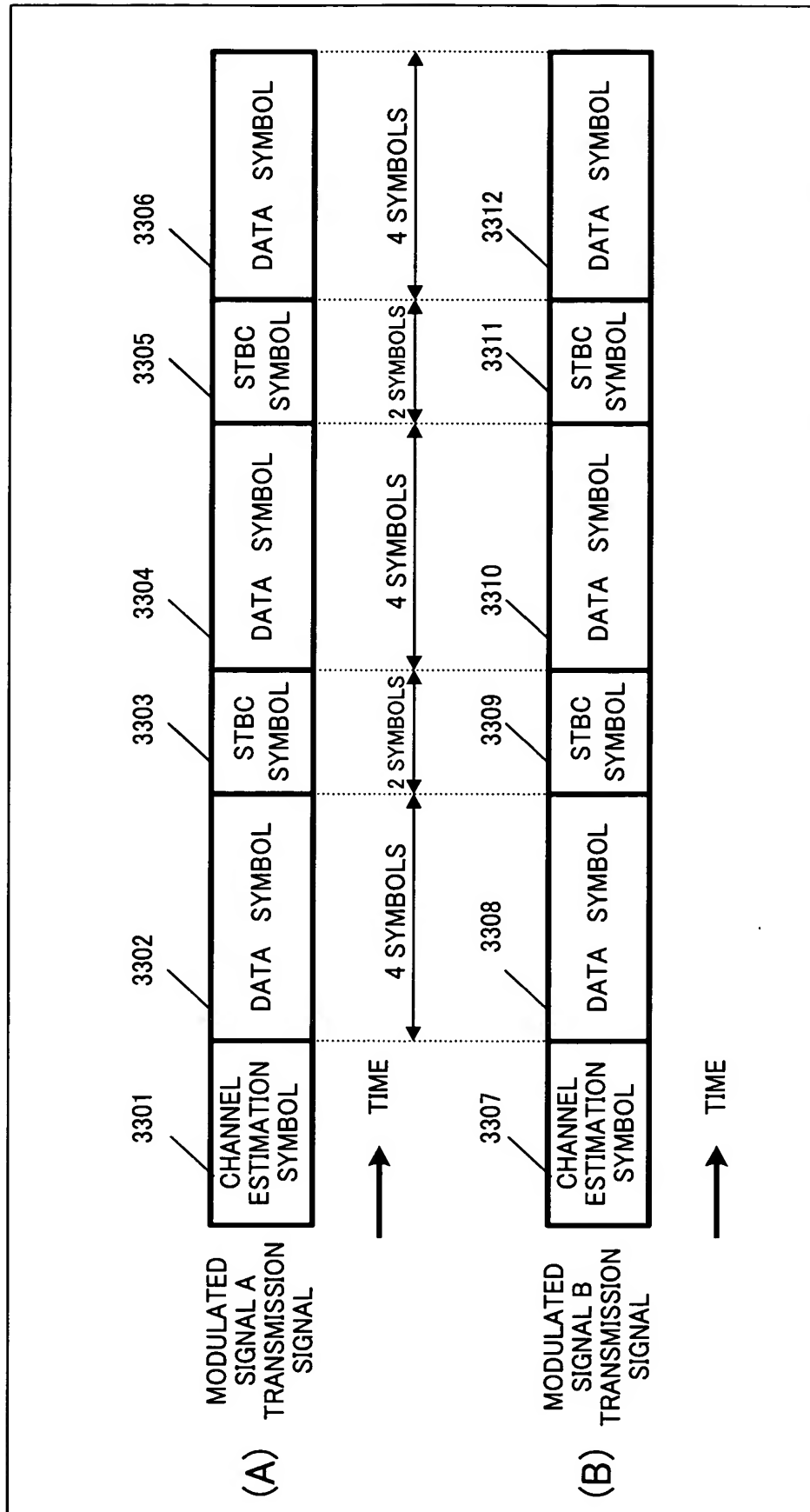


FIG.35

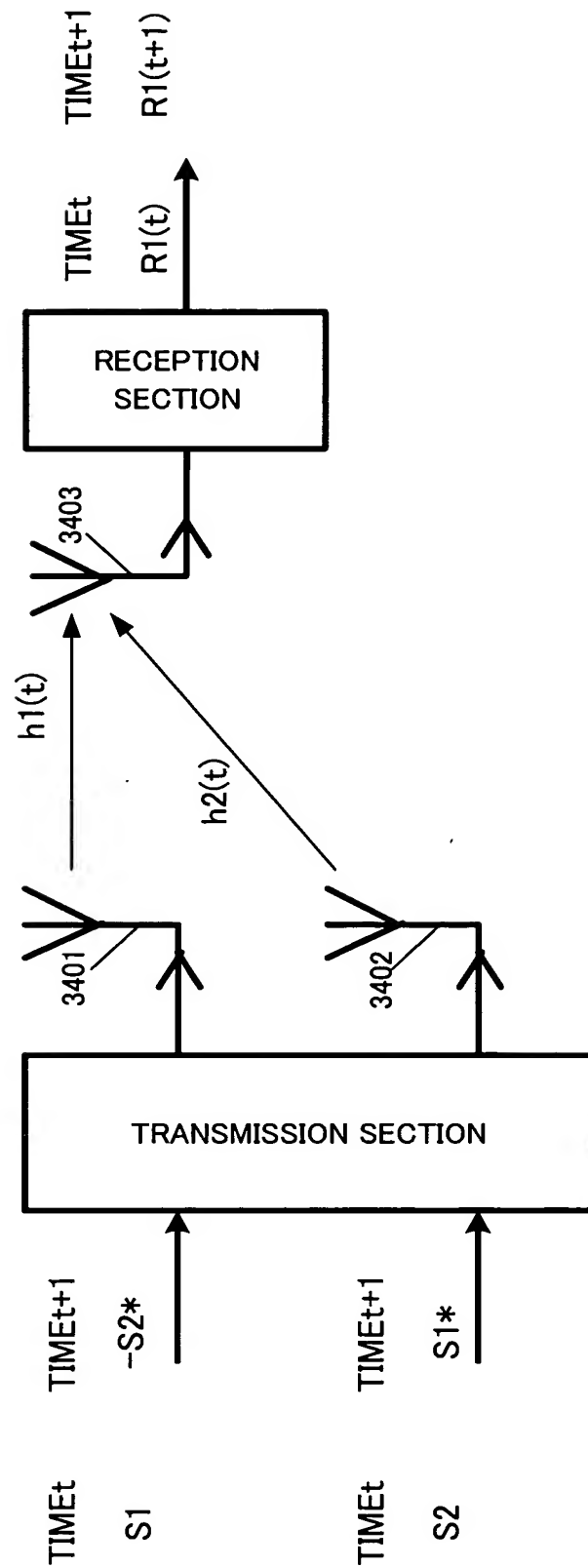


FIG.36

202A (202B)

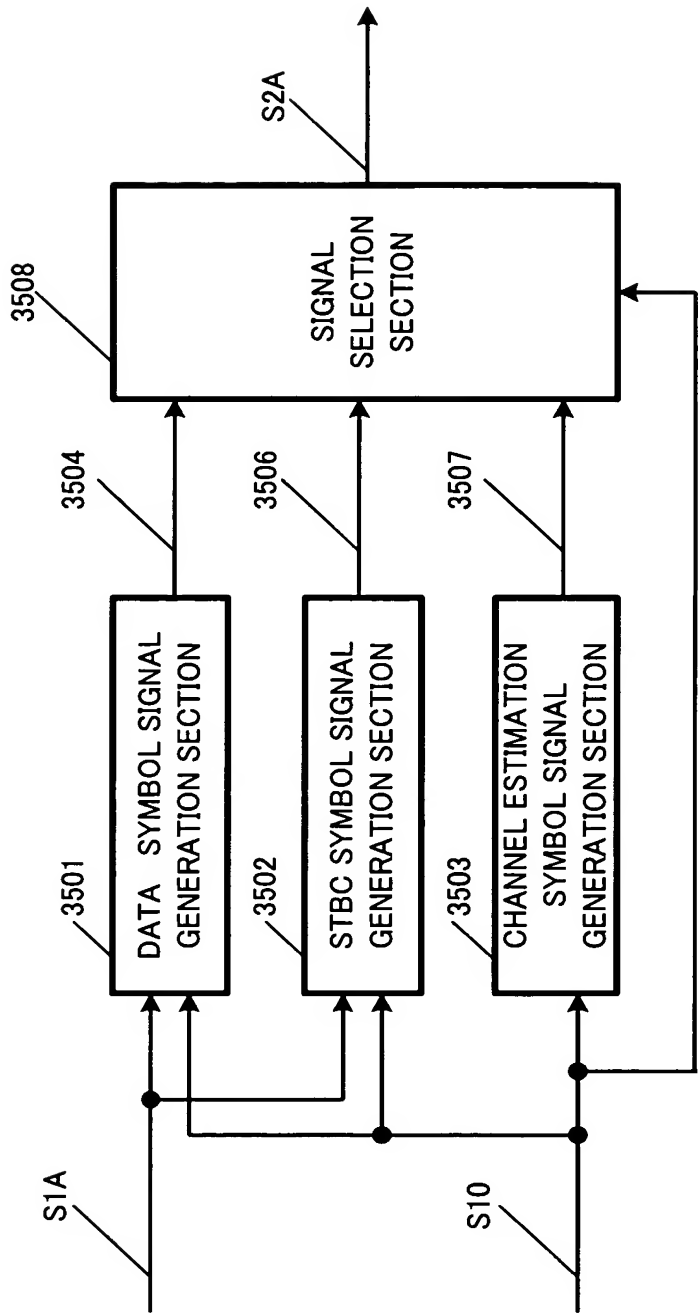


FIG.37

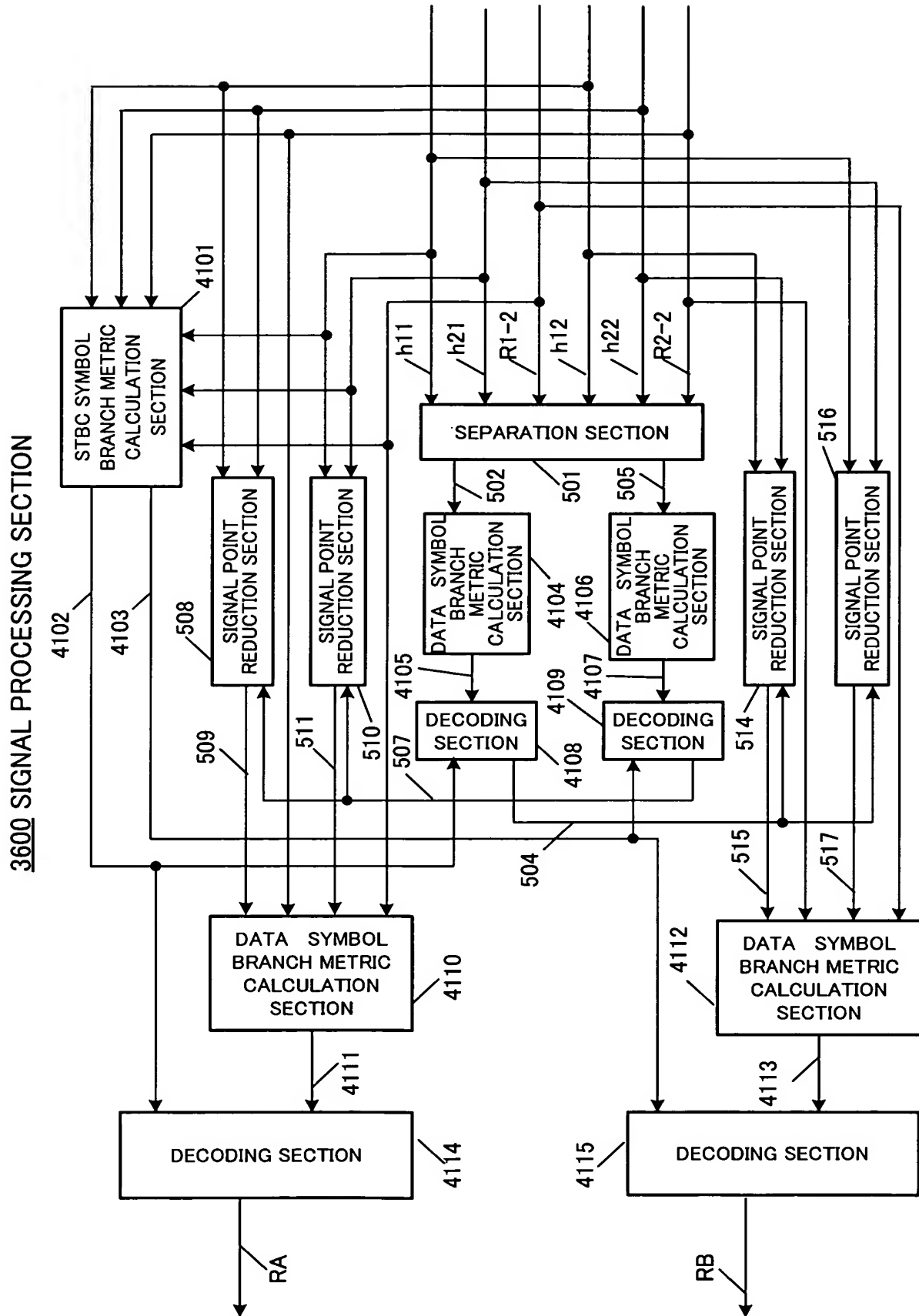
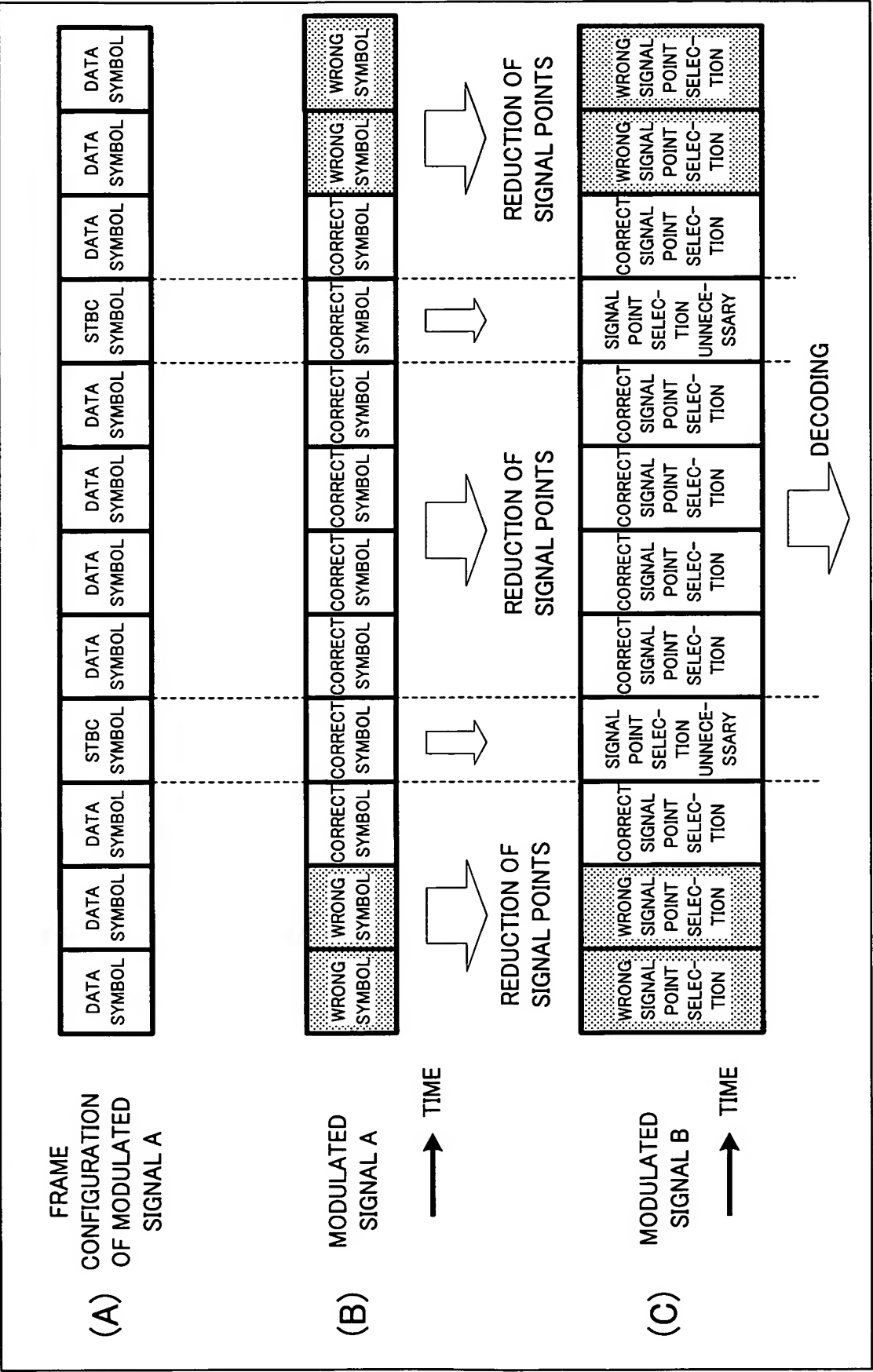


FIG.38



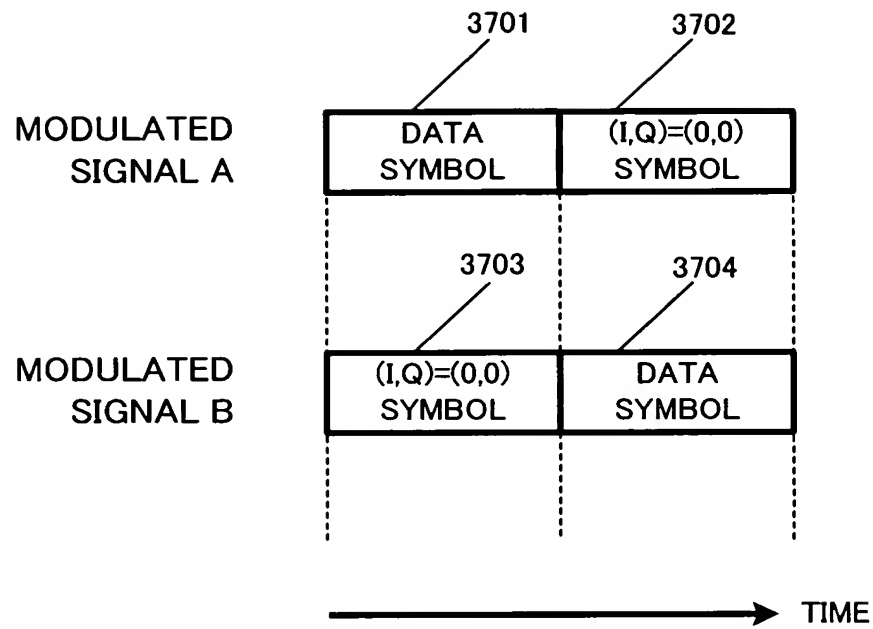


FIG.41

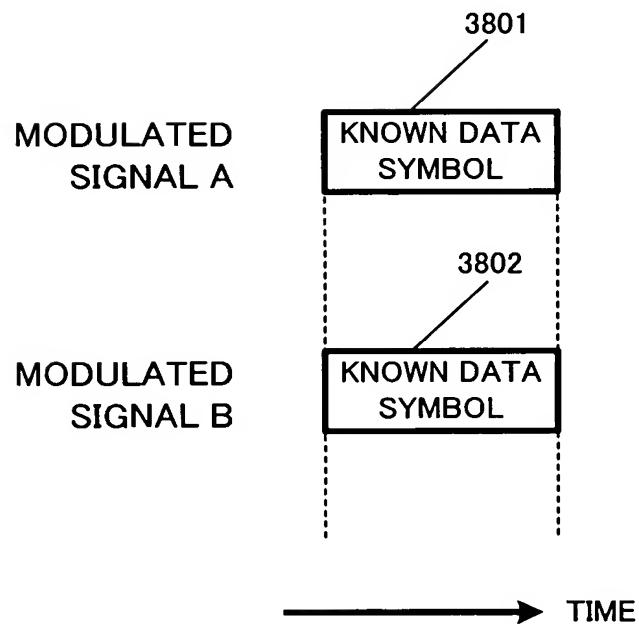


FIG.42

202A (202B)

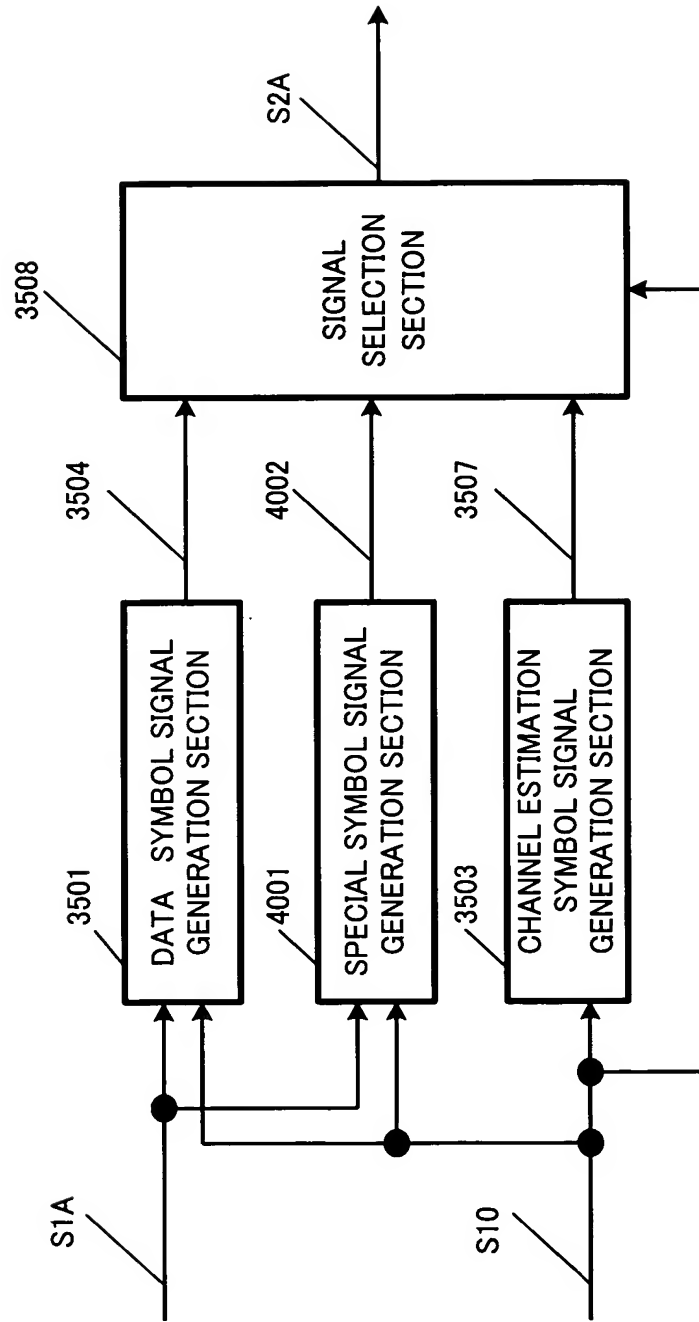


FIG.43

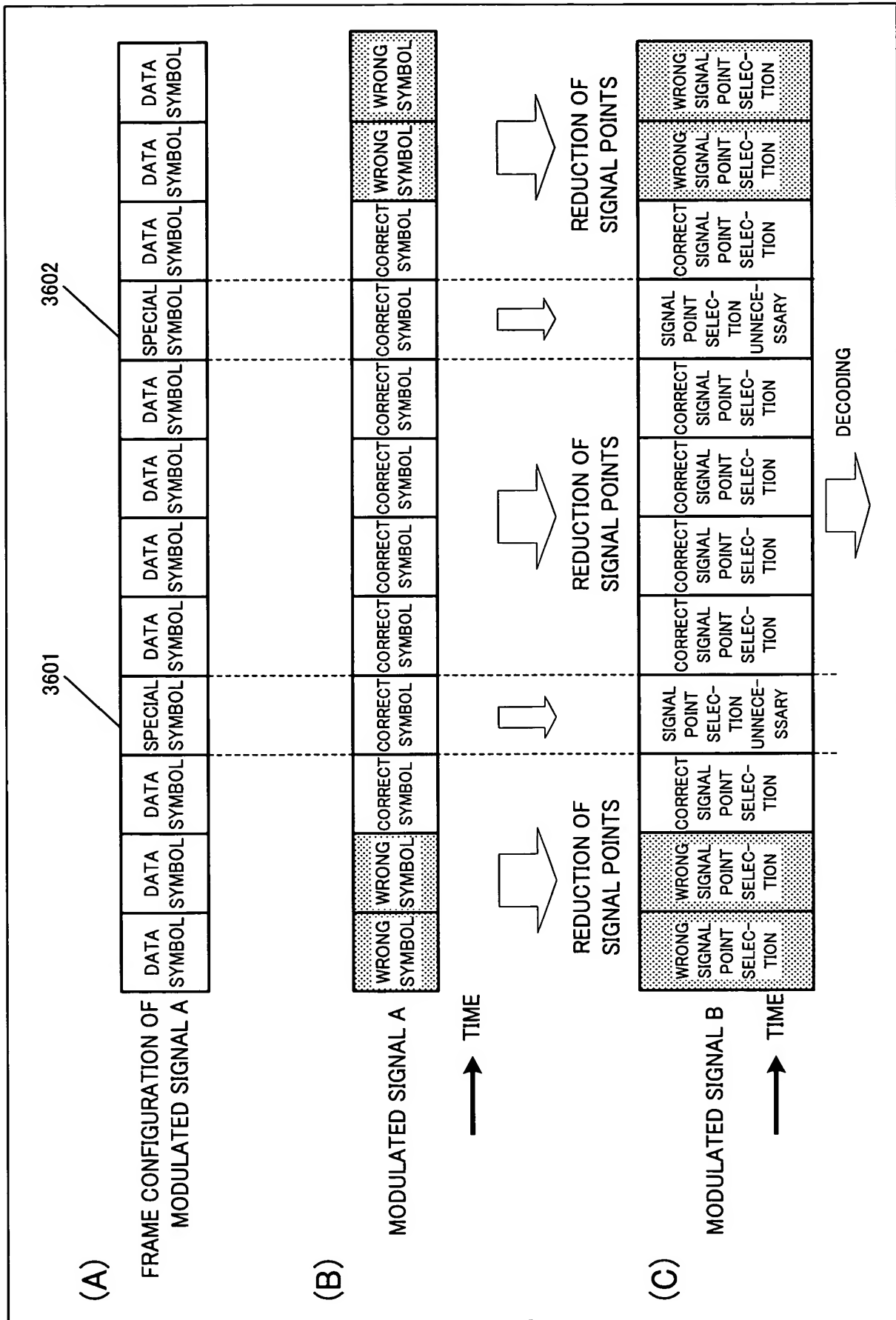


FIG.44

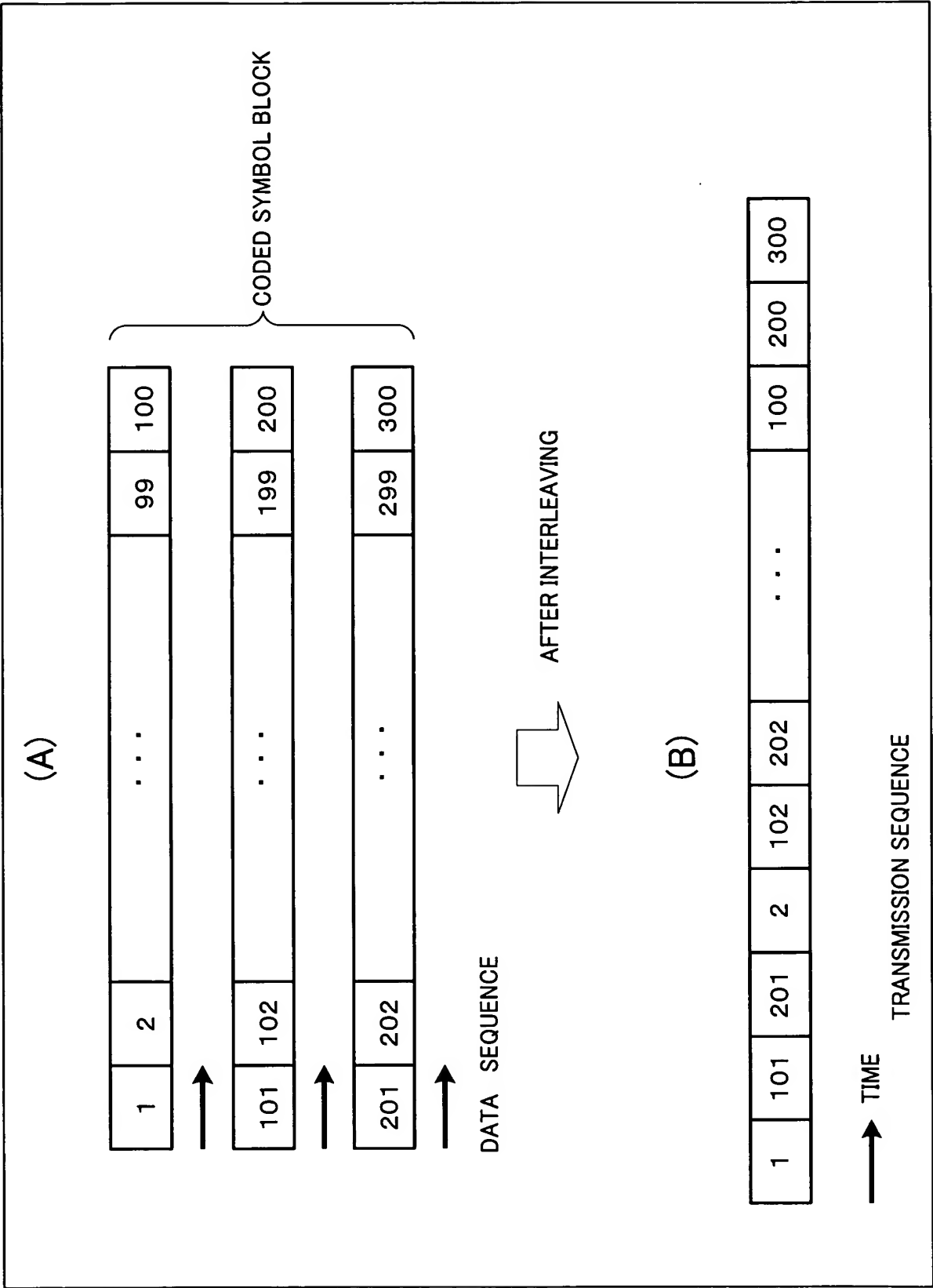


FIG.45

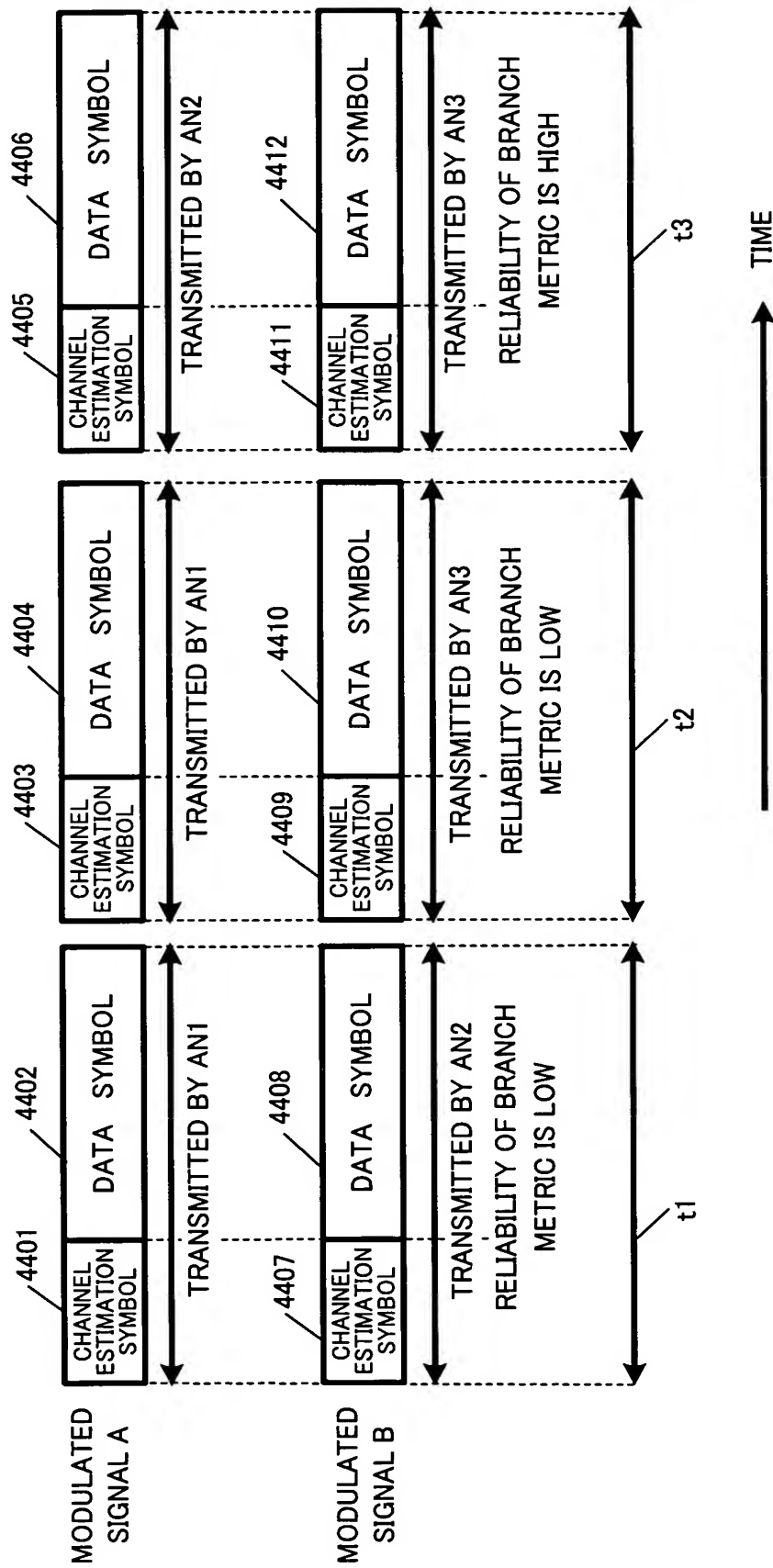


FIG.46

4500 MULTI-ANTENNA TRANSMISSION APPARATUS

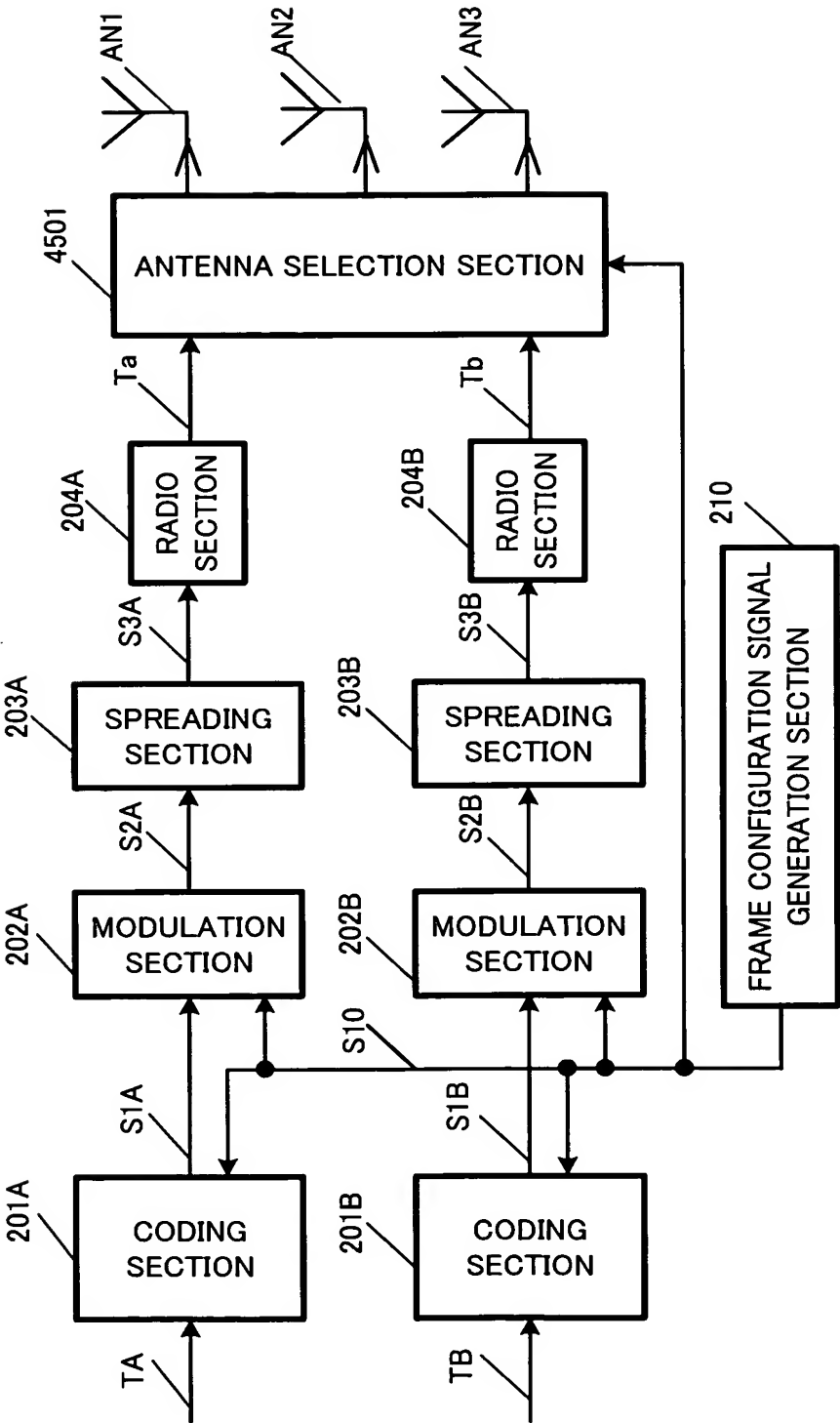


FIG.47

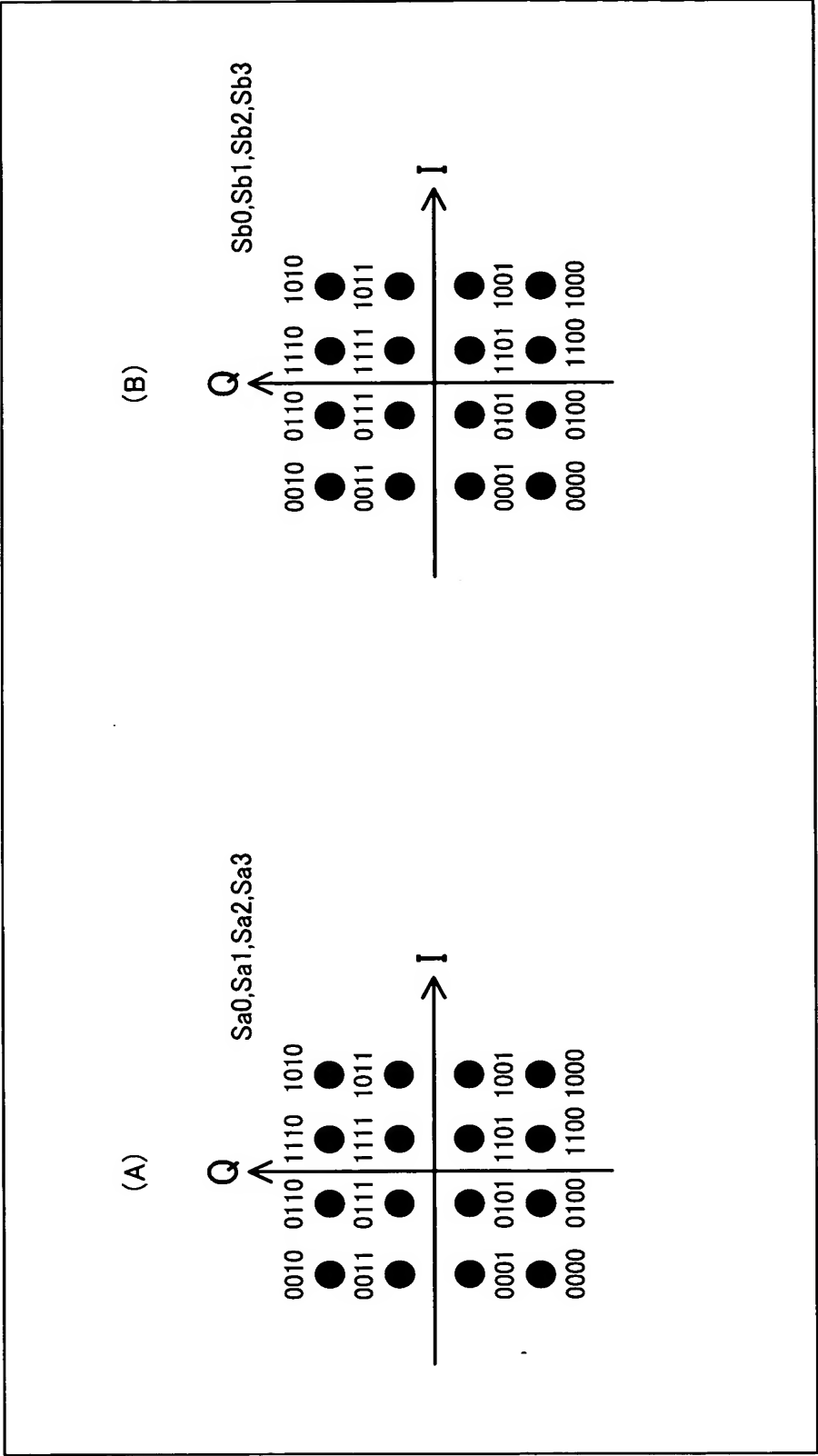


FIG.48

4700 MULTI-ANTENNA TRANSMISSION APPARATUS

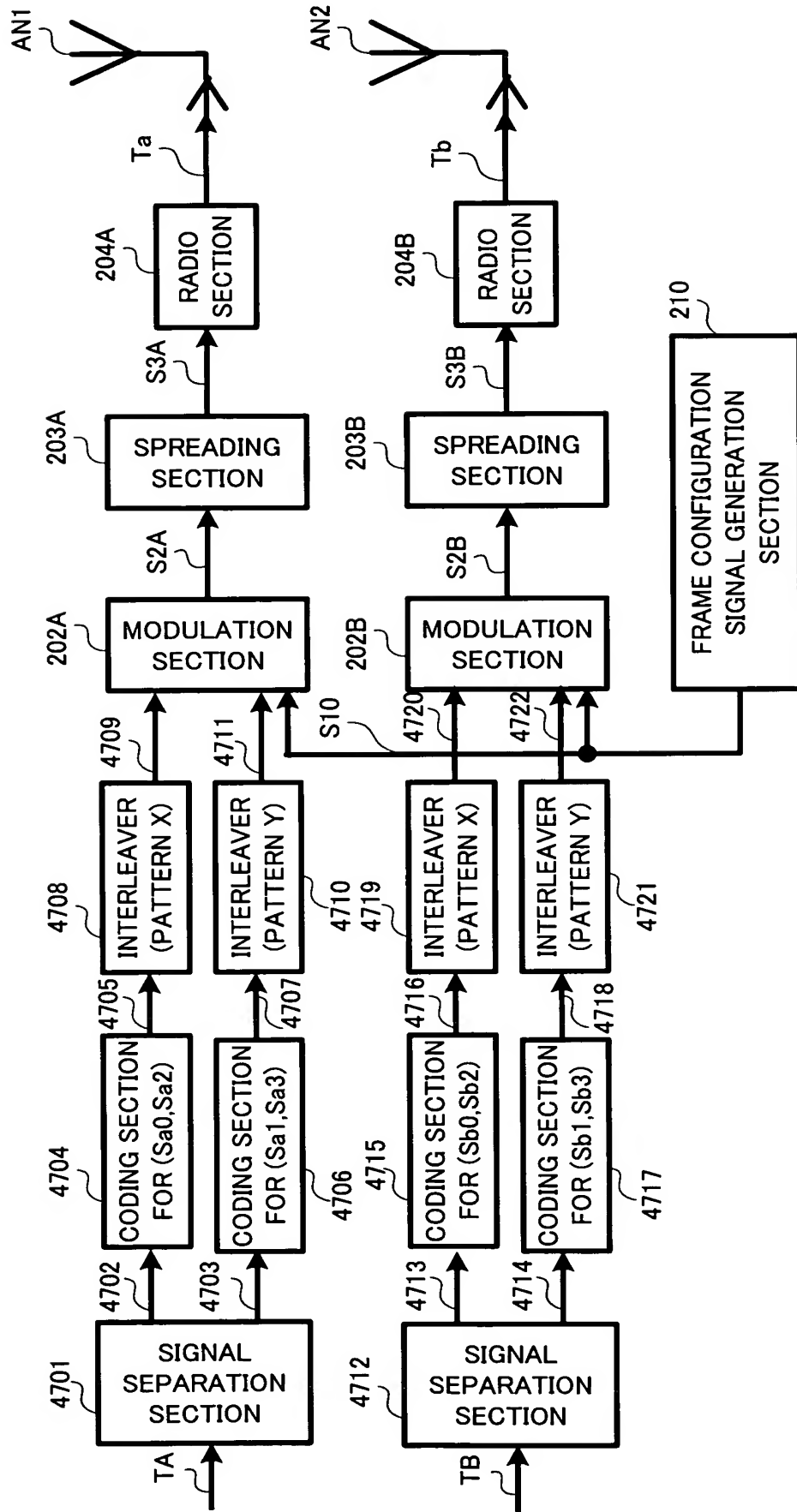


FIG.49

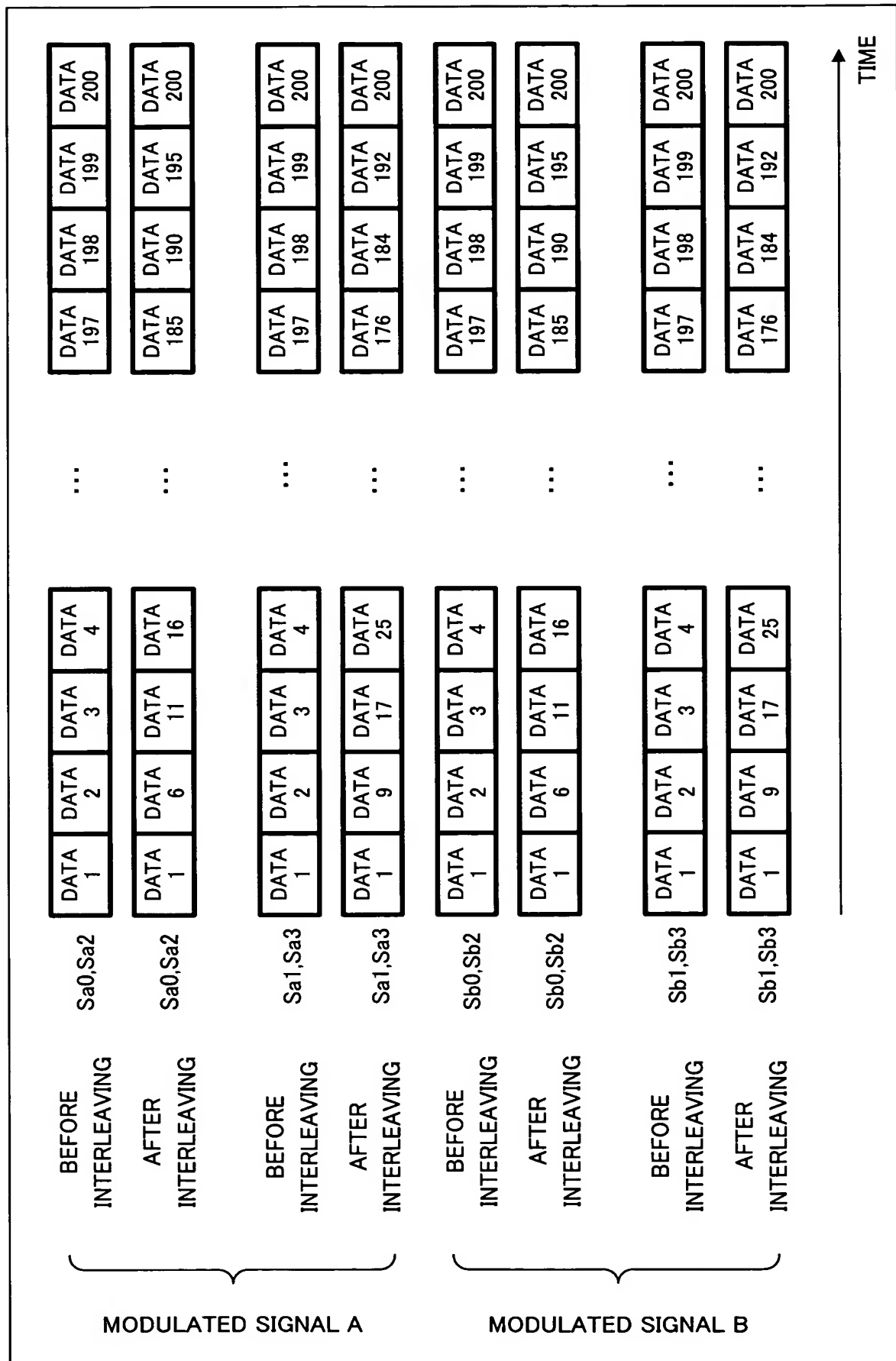


FIG.50

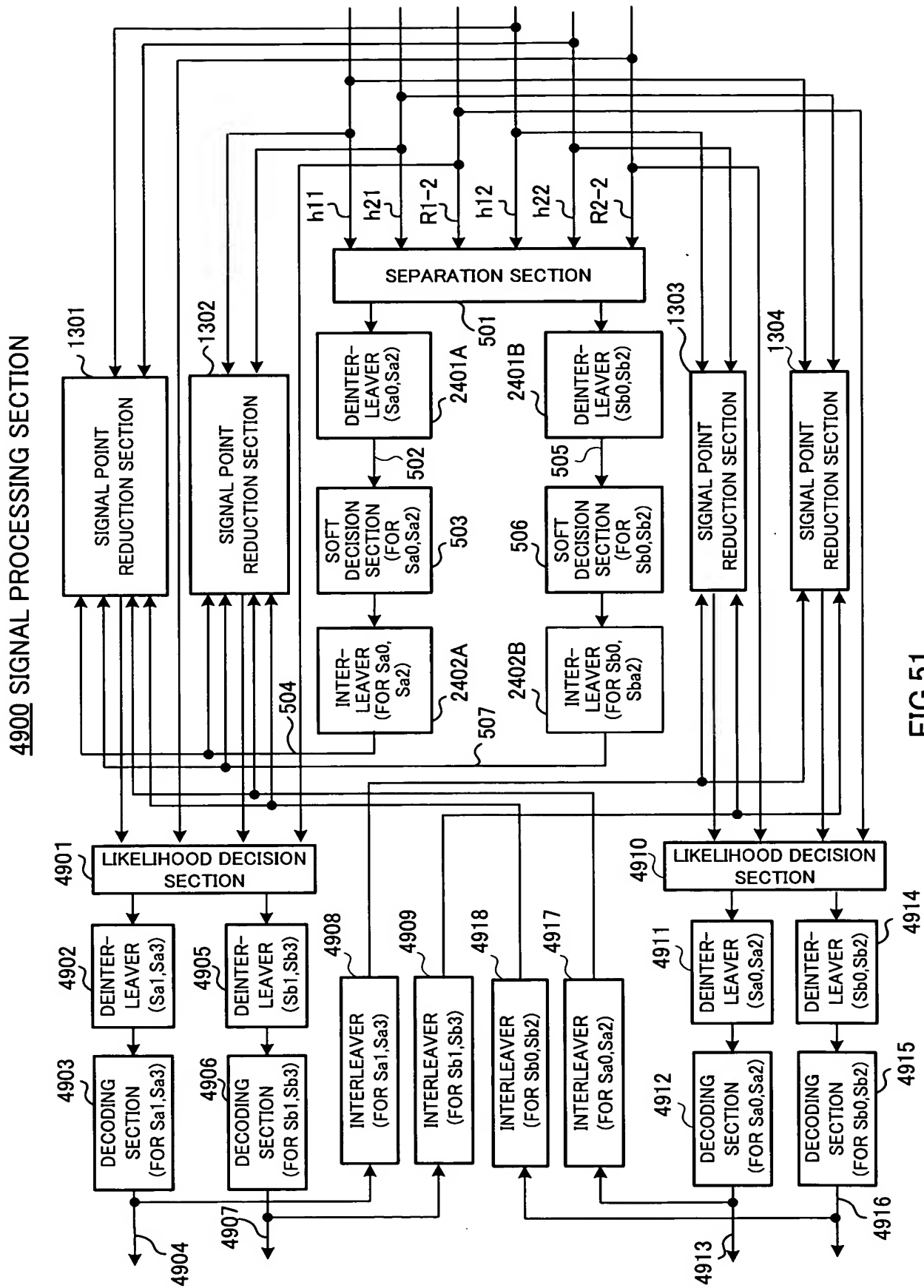


FIG.51

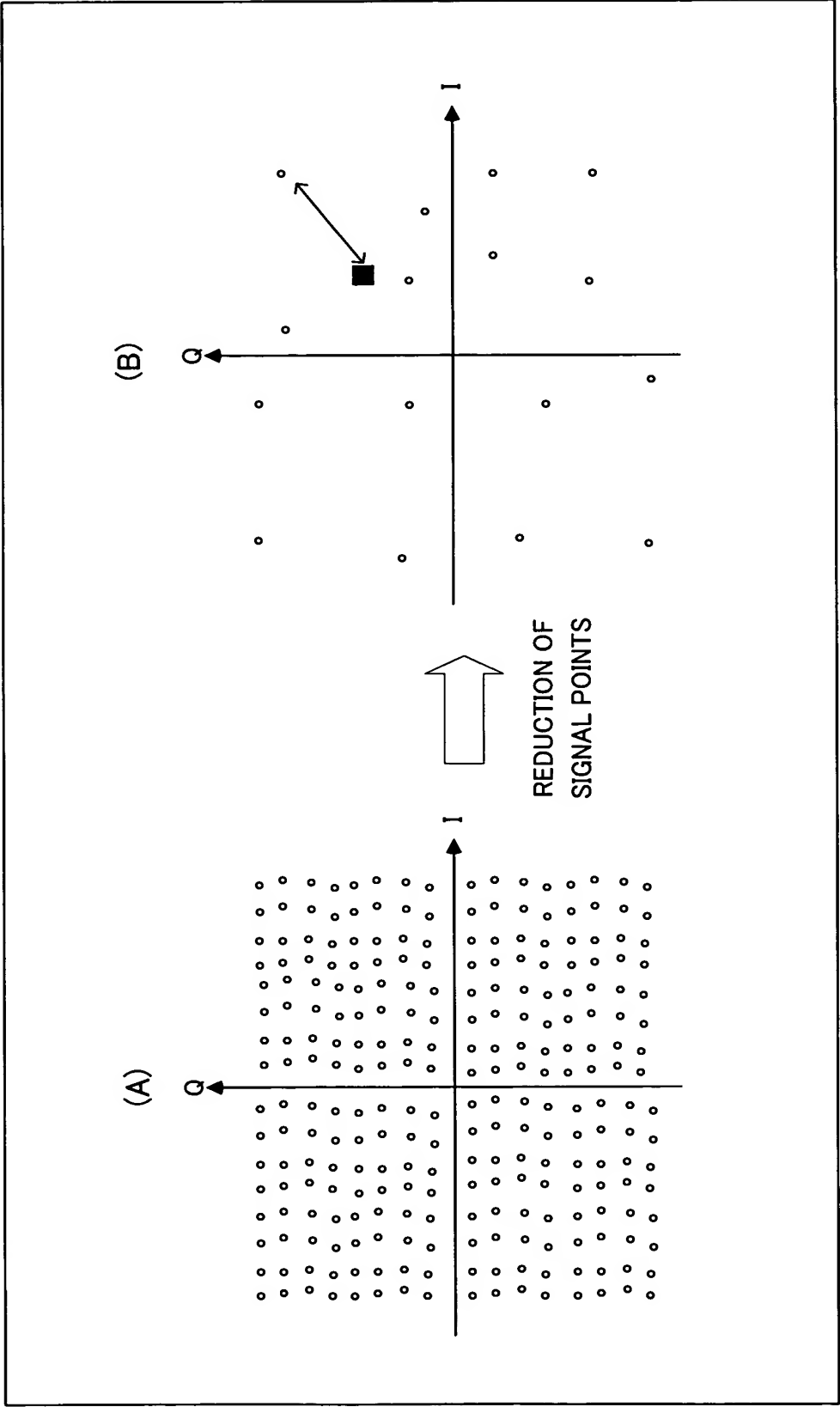


FIG.52

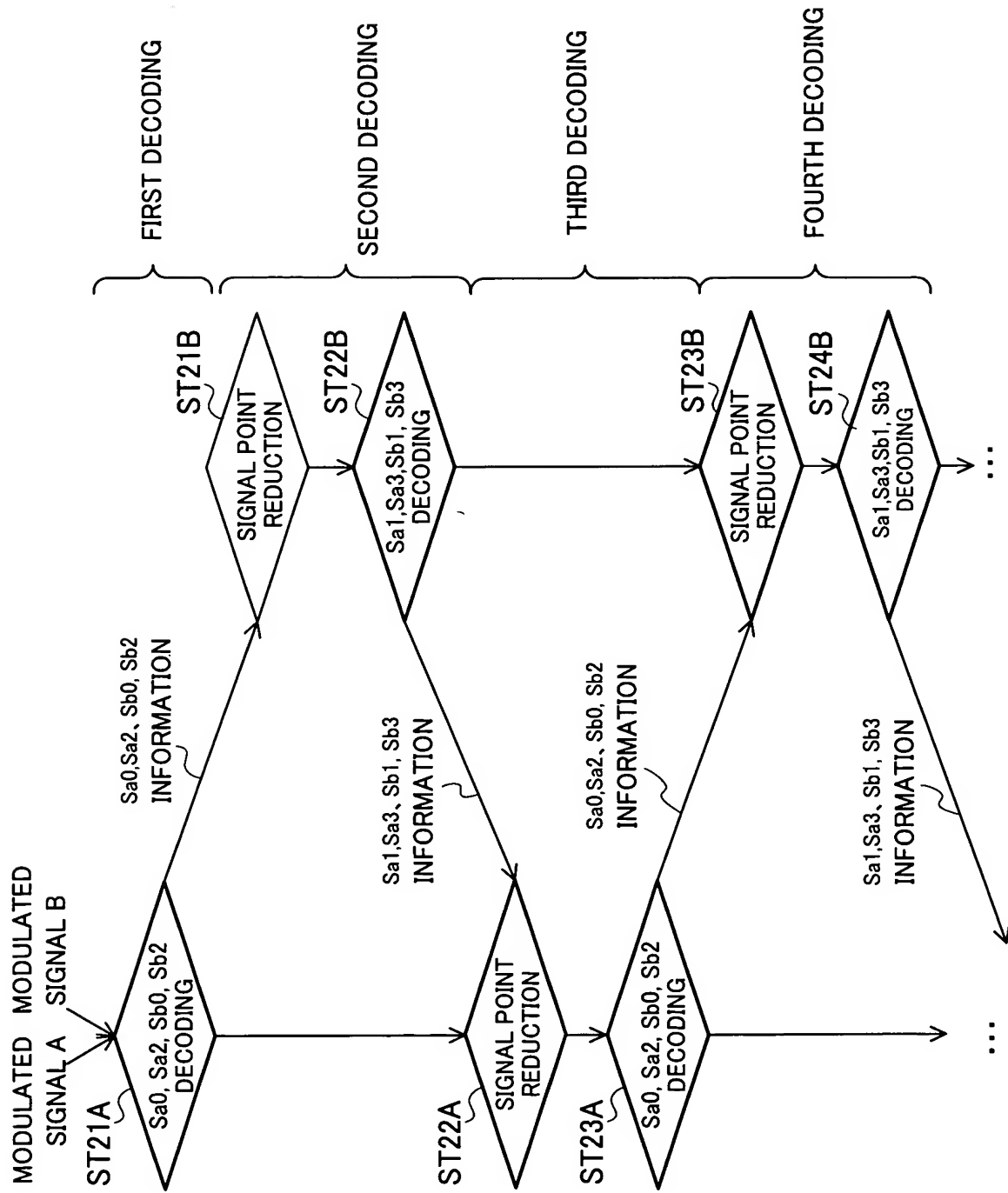


FIG. 53

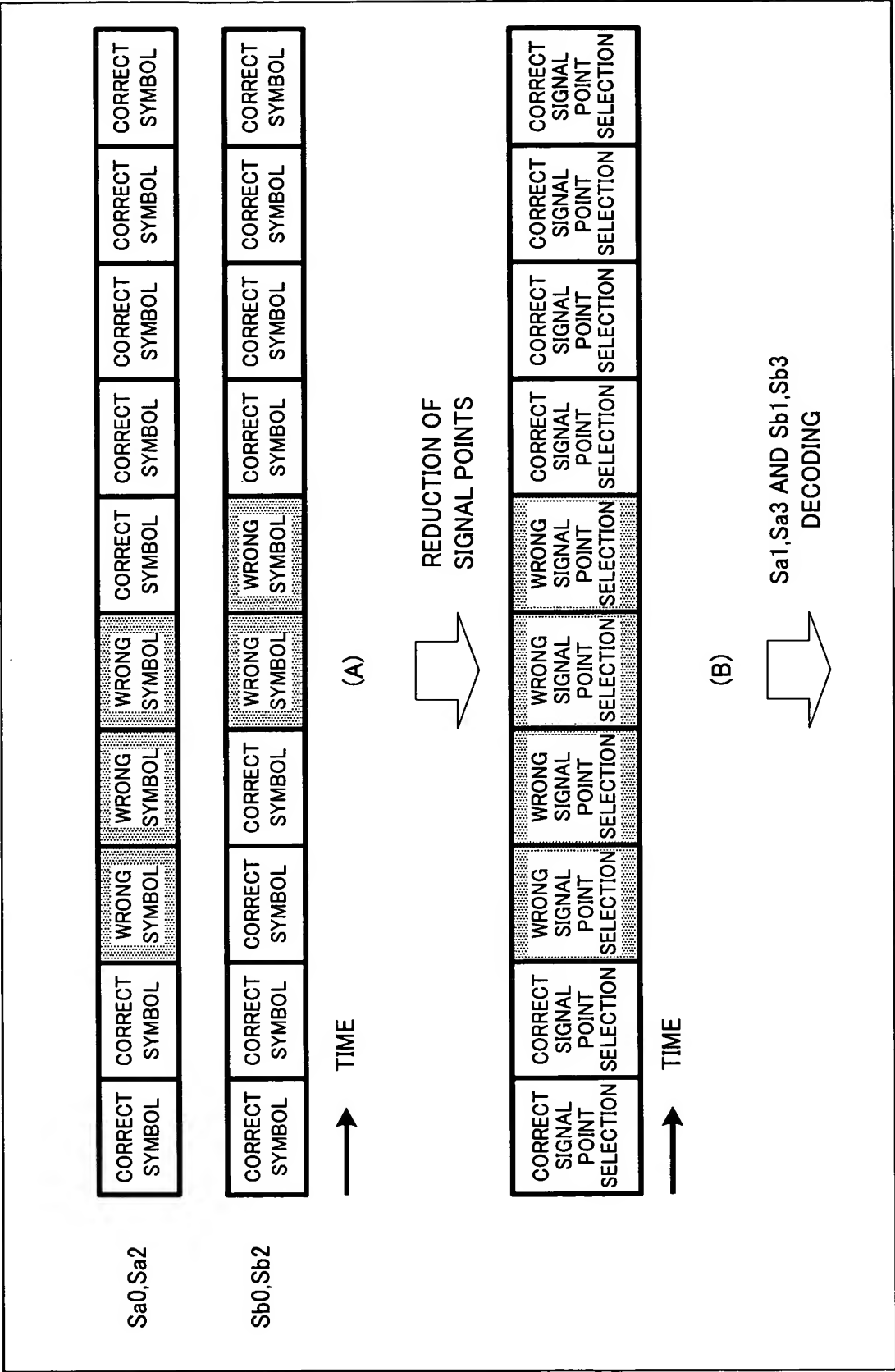


FIG.54

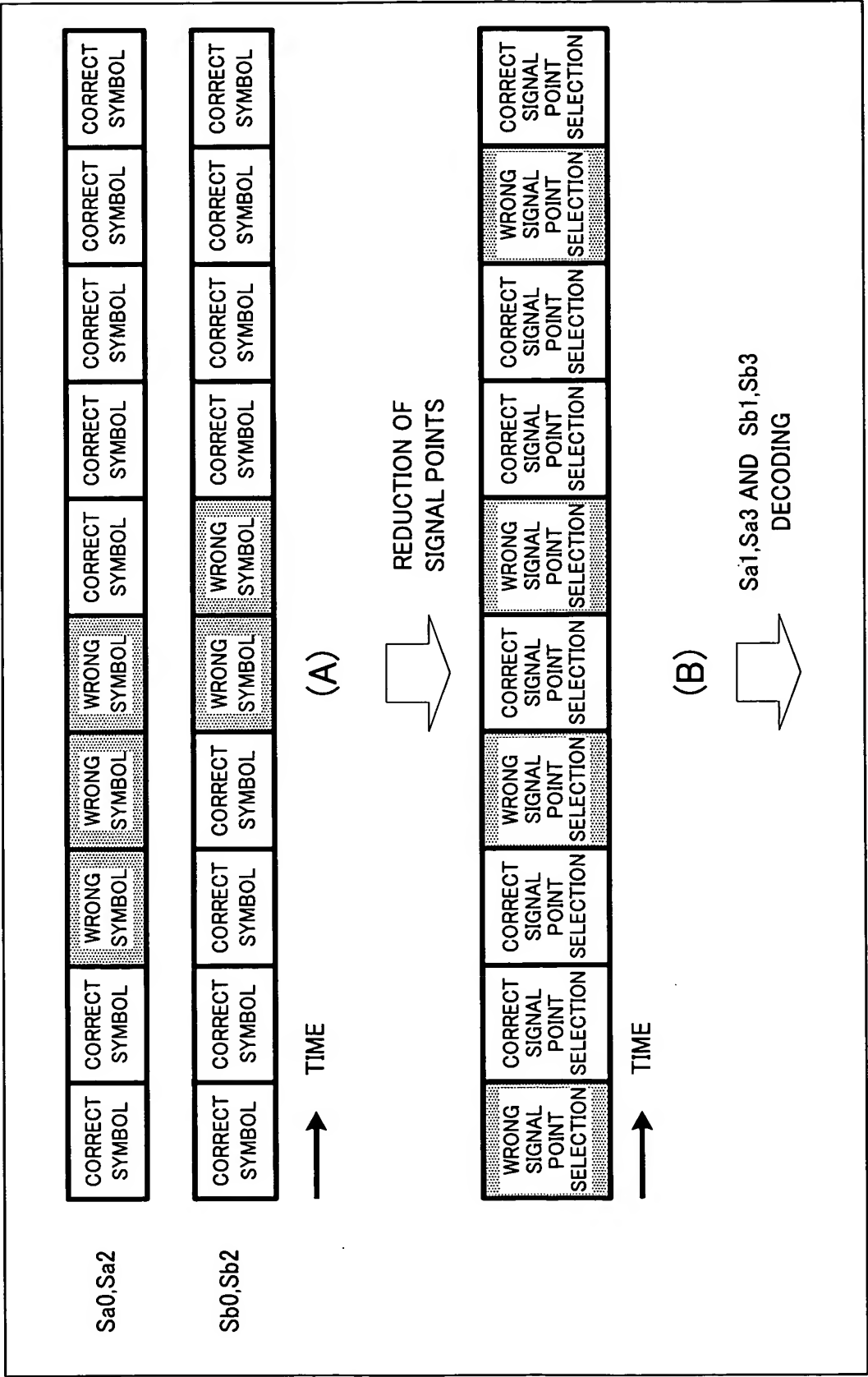


FIG.55

5400 MULTI-ANTENNA TRANSMISSION APPARATUS

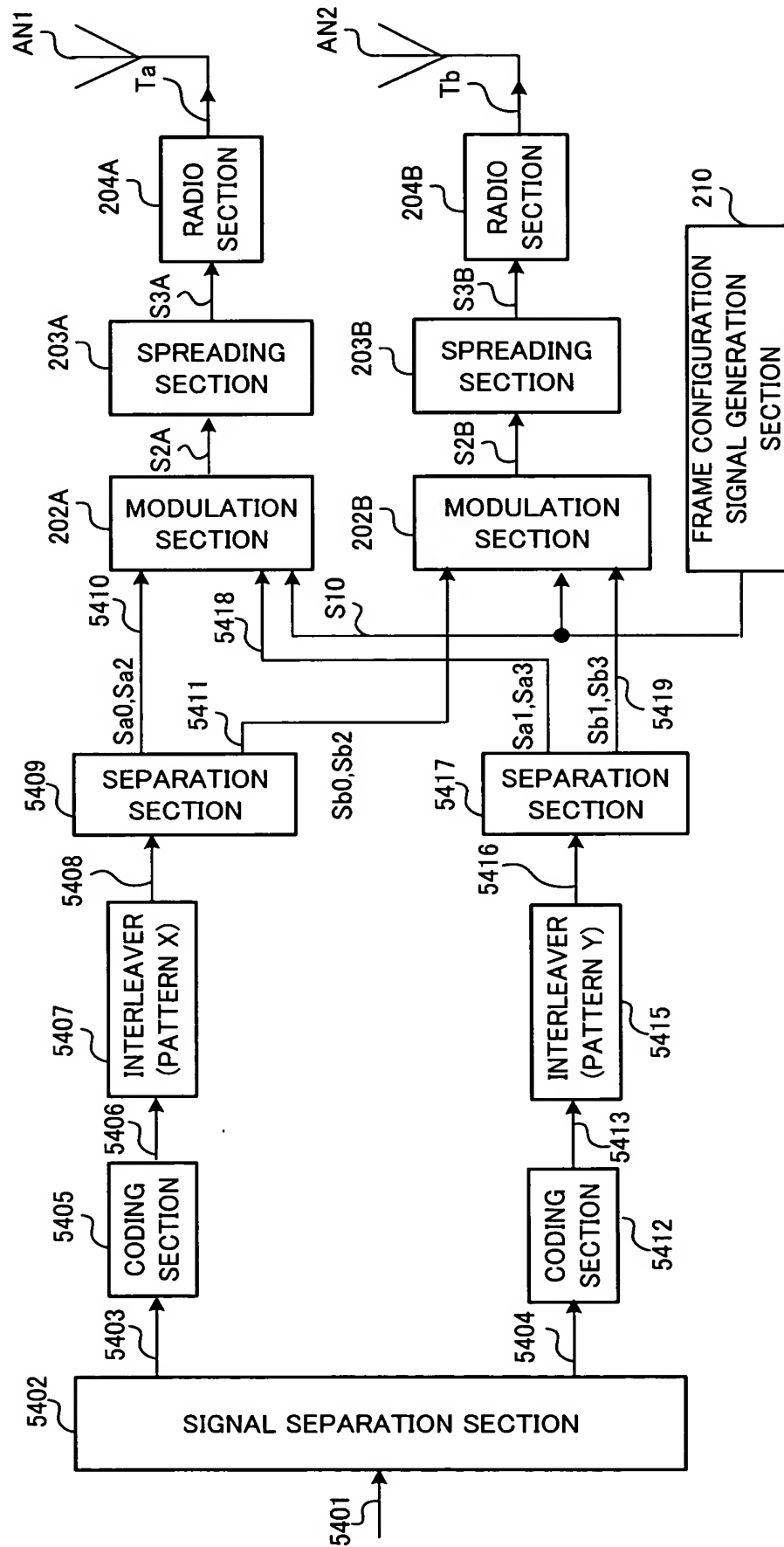


FIG.56

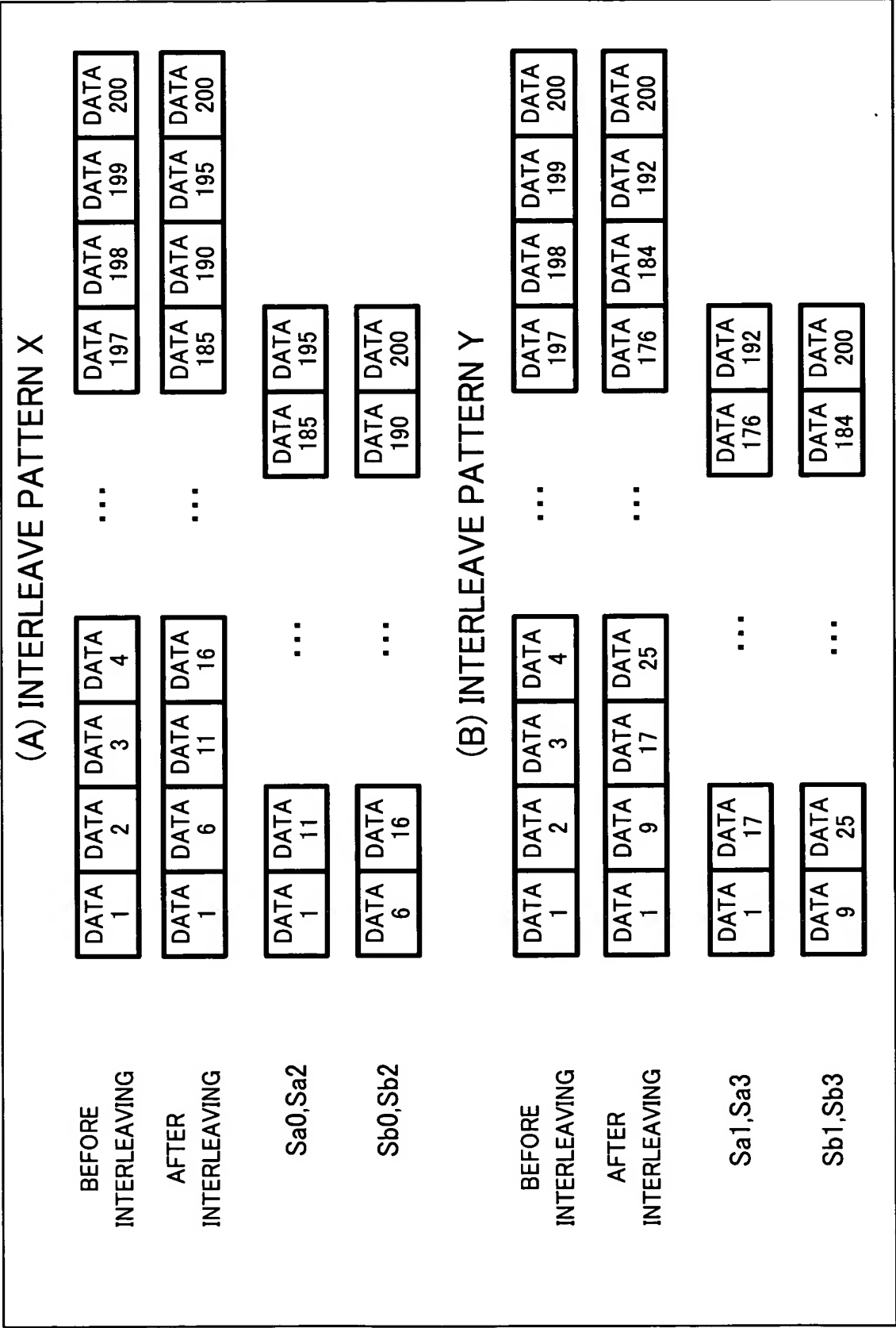


FIG.57

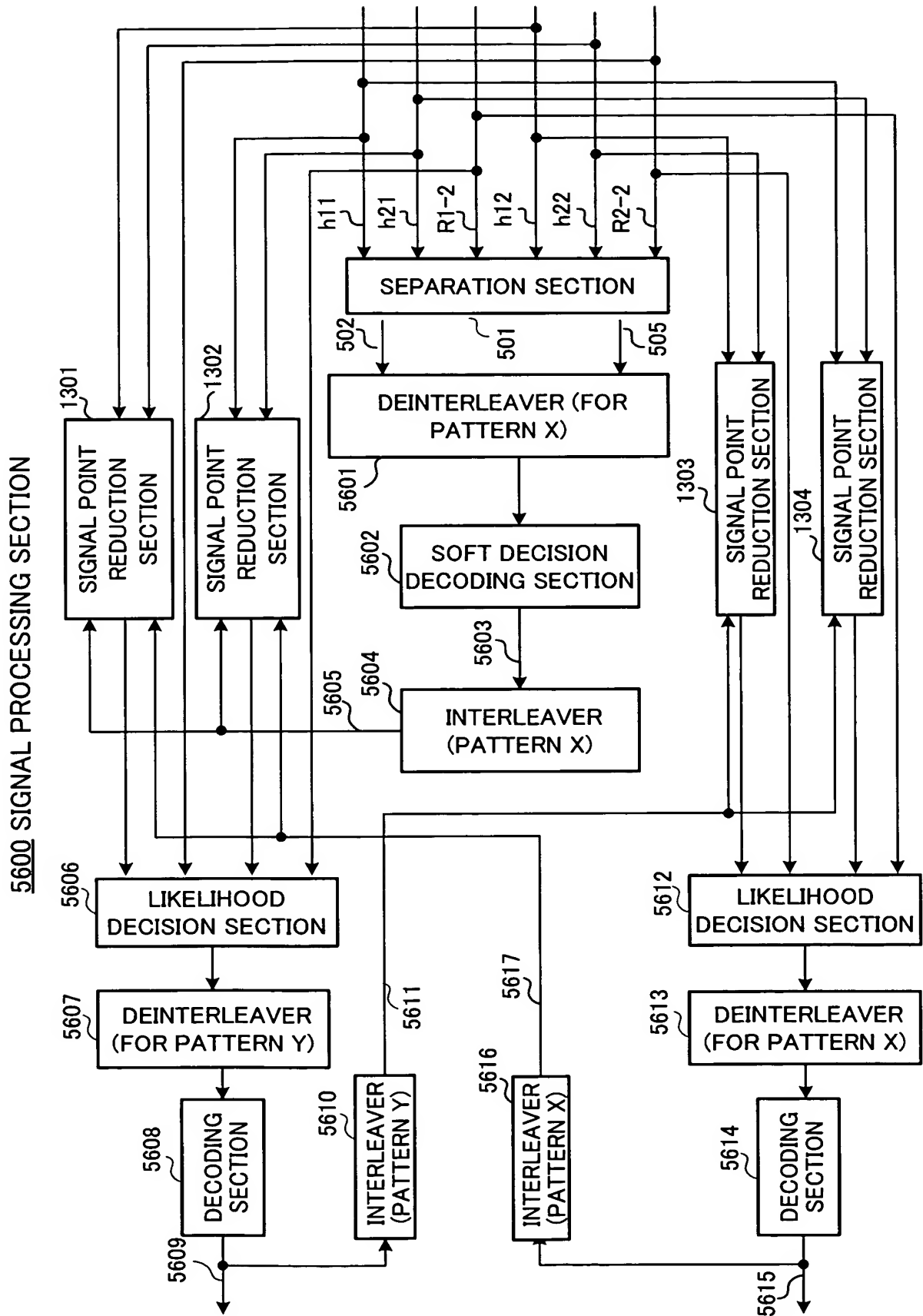


FIG.58

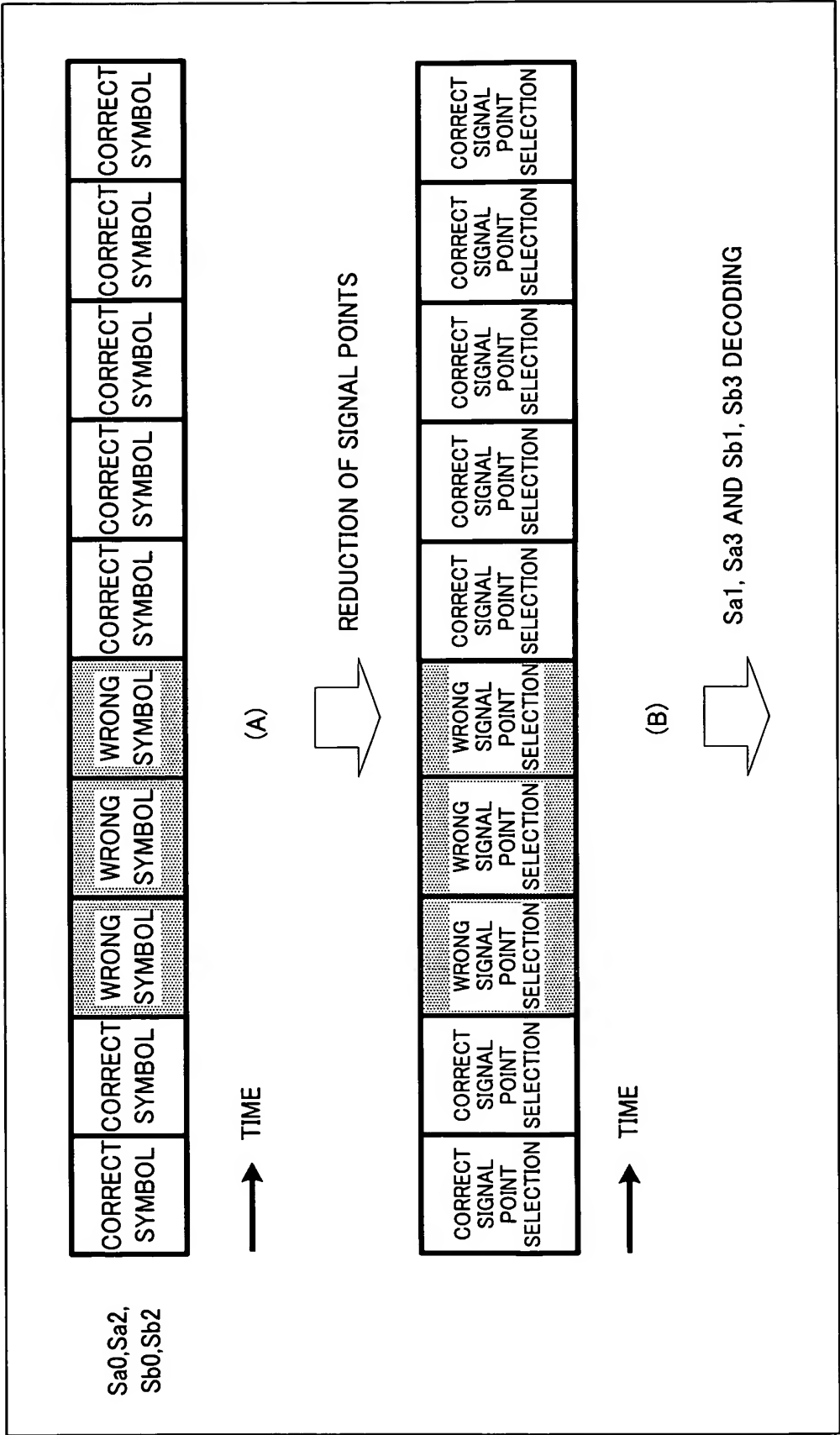


FIG.59

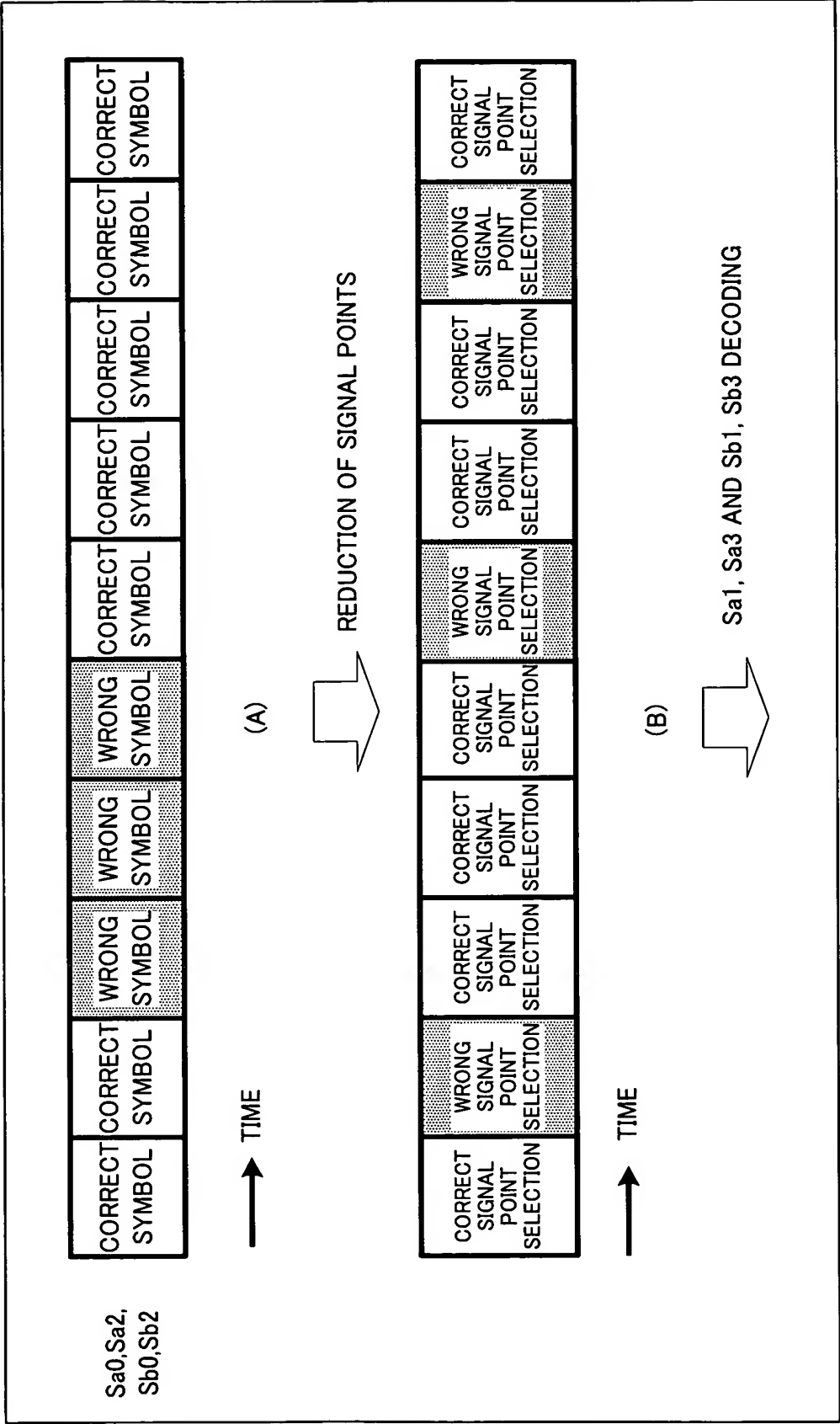


FIG.60

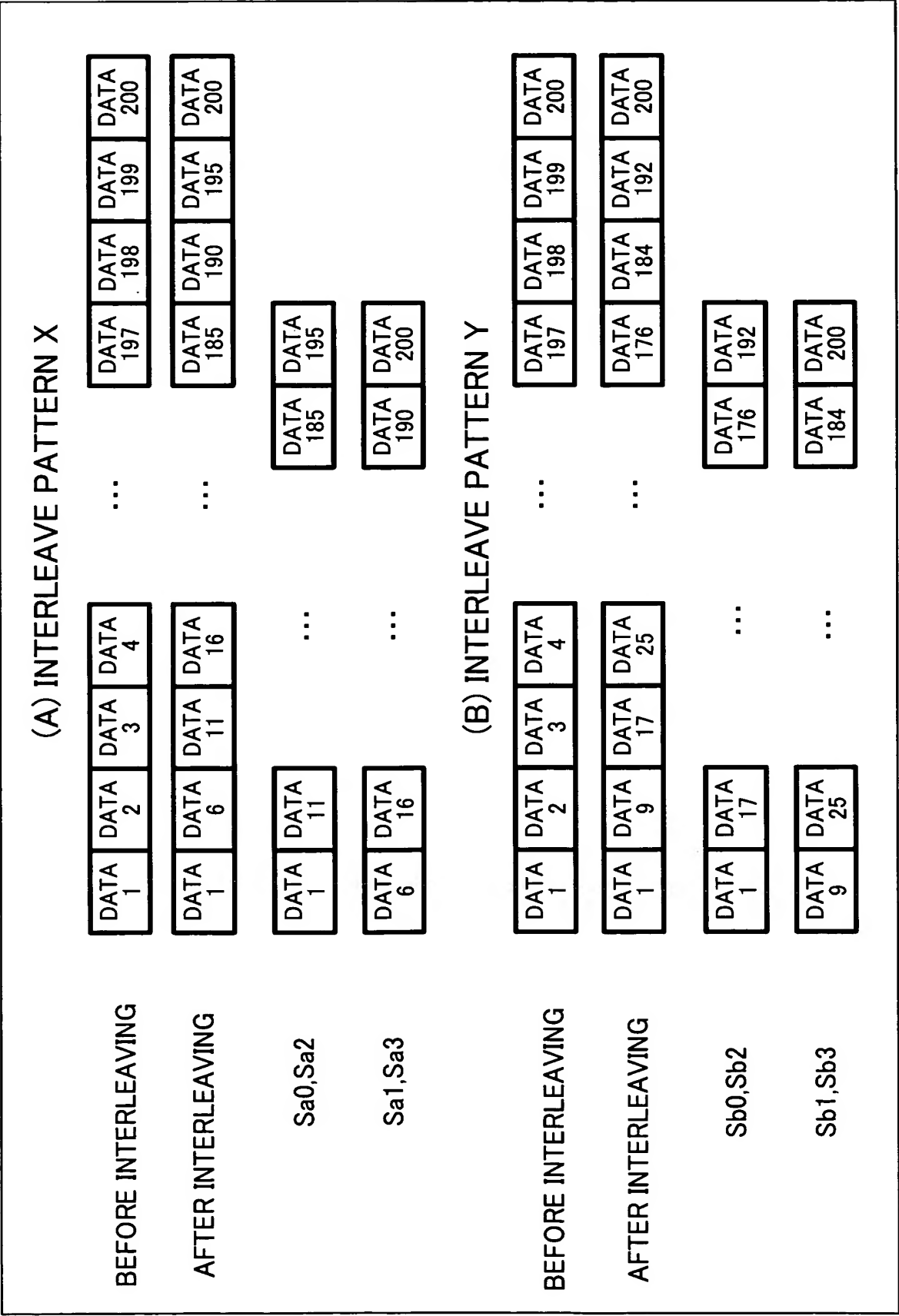
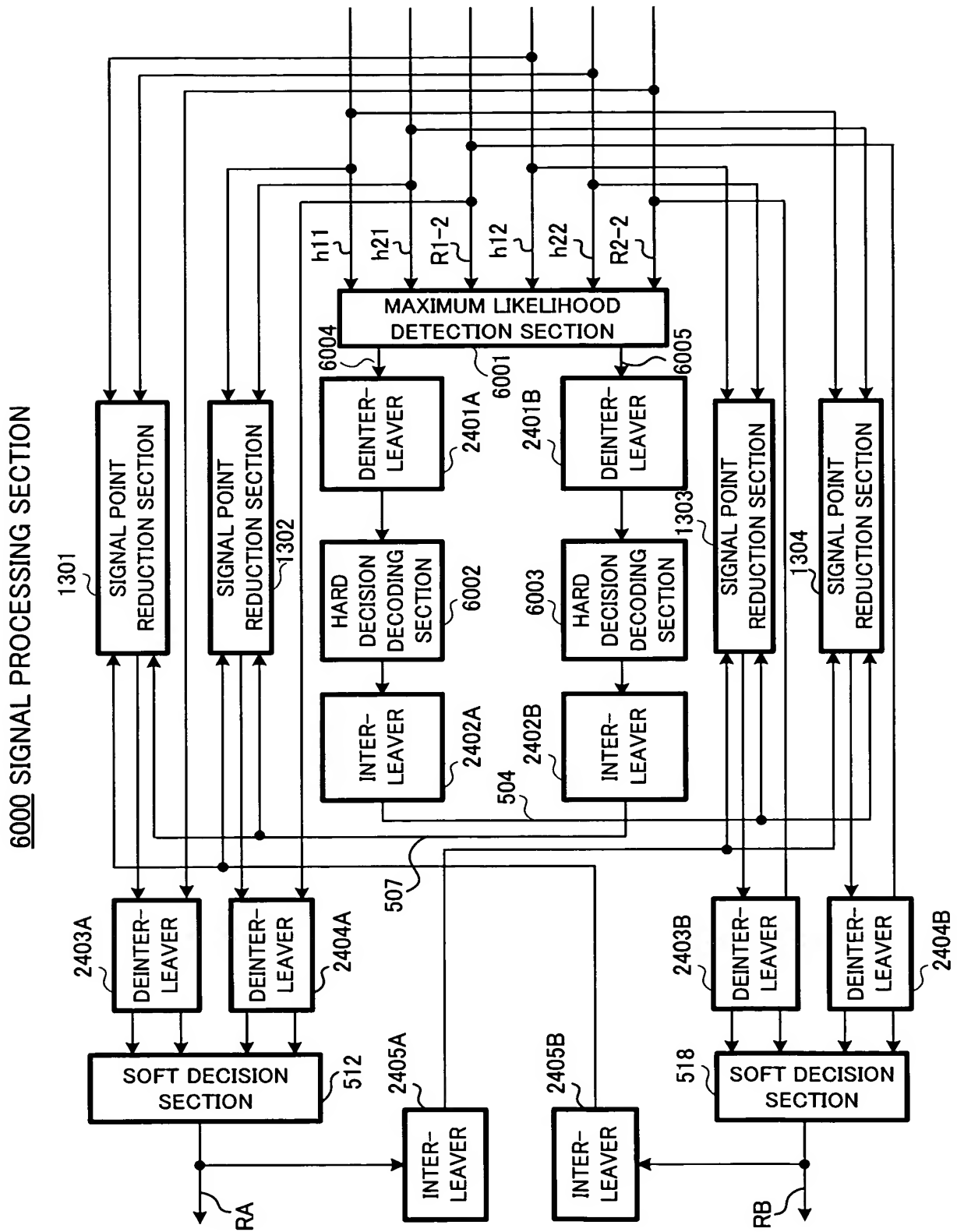


FIG.61



6100 MULTI-ANTENNA TRANSMISSION APPARATUS

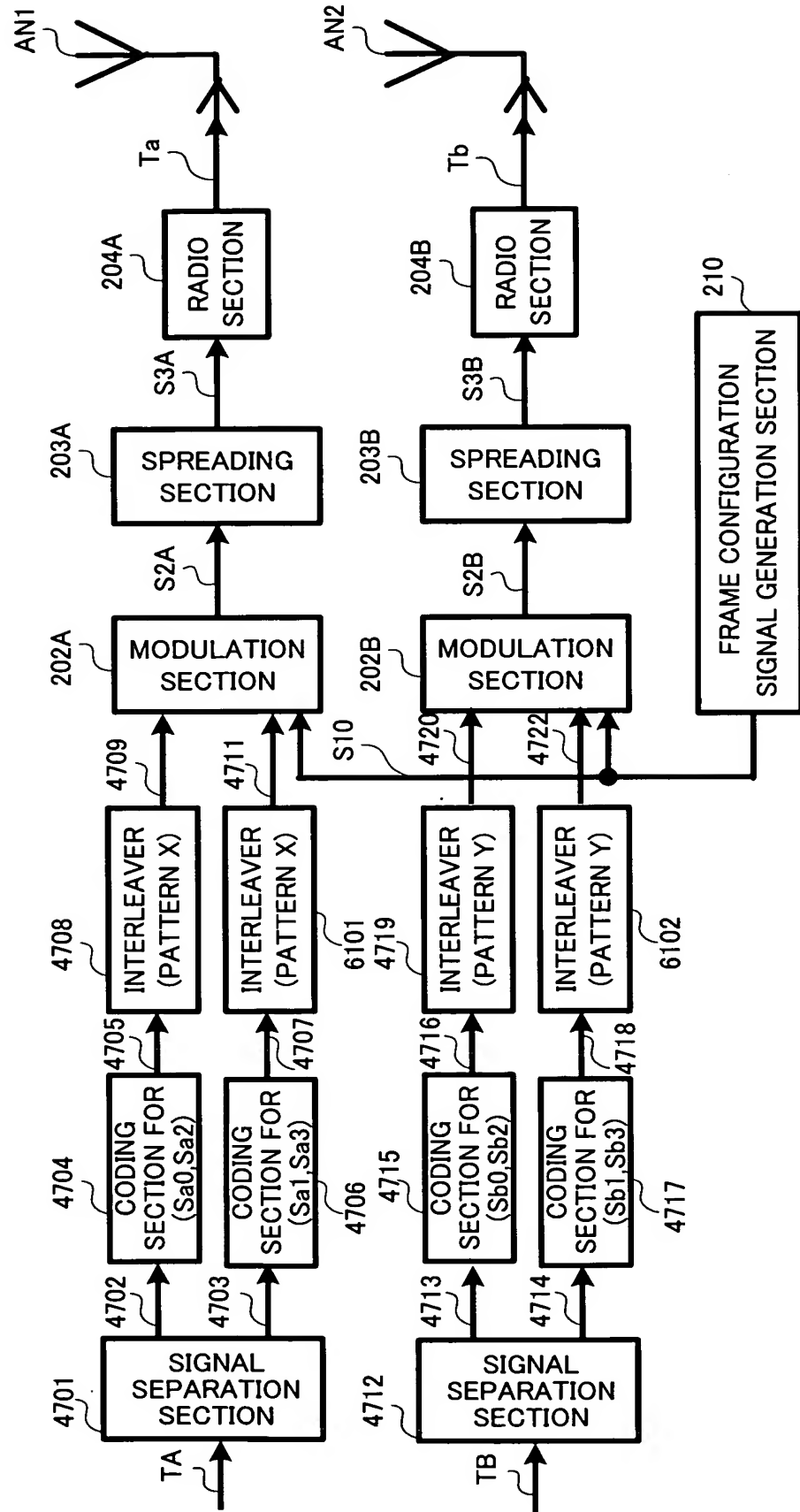


FIG.63

6200 MULTI-ANTENNA TRANSMISSION APPARATUS

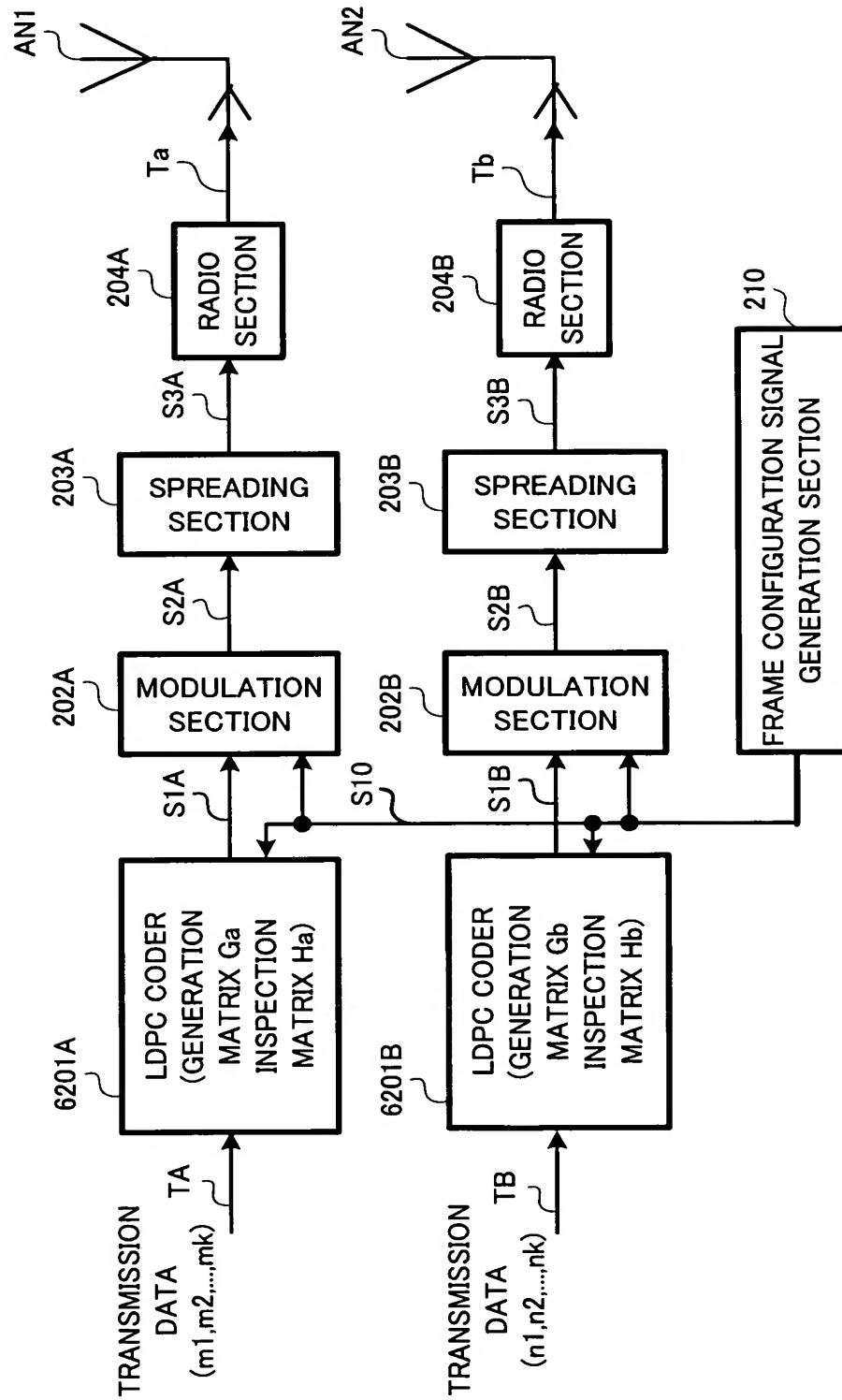


FIG.64

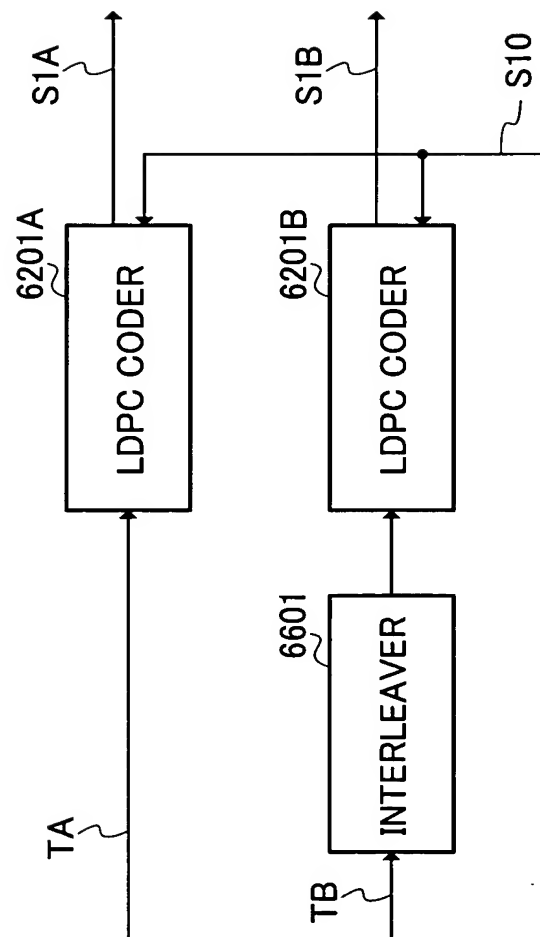


FIG.66

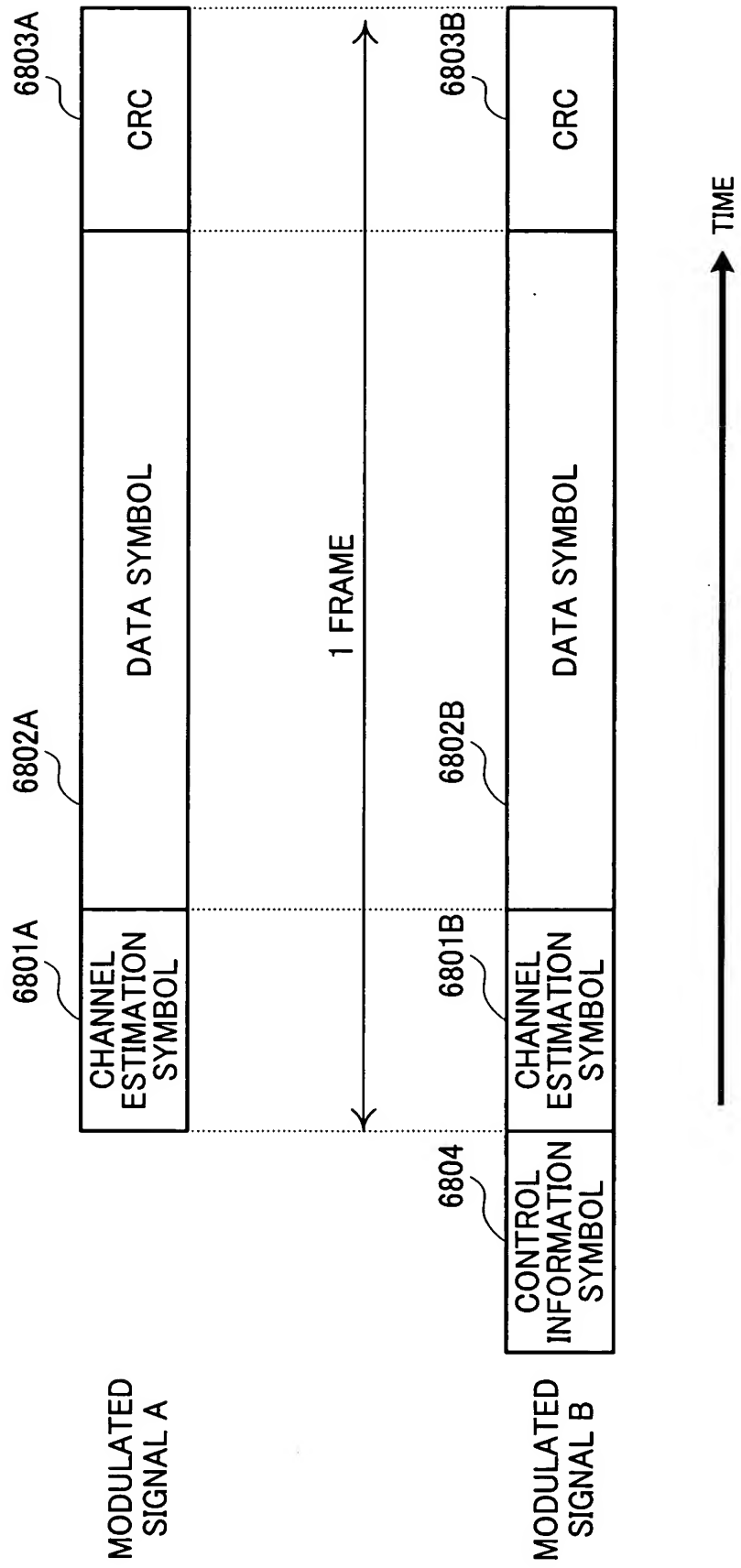


FIG.67

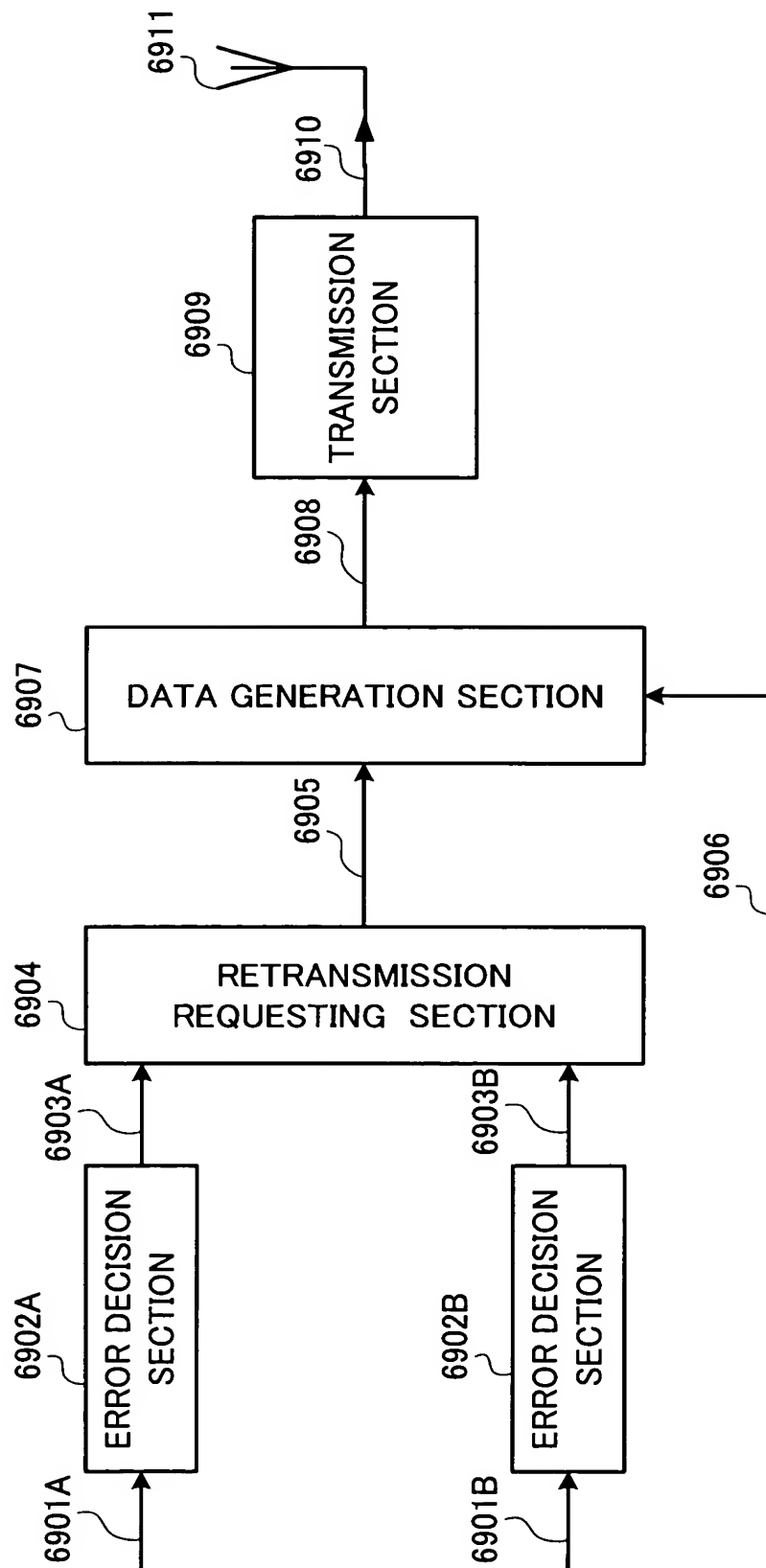


FIG.68

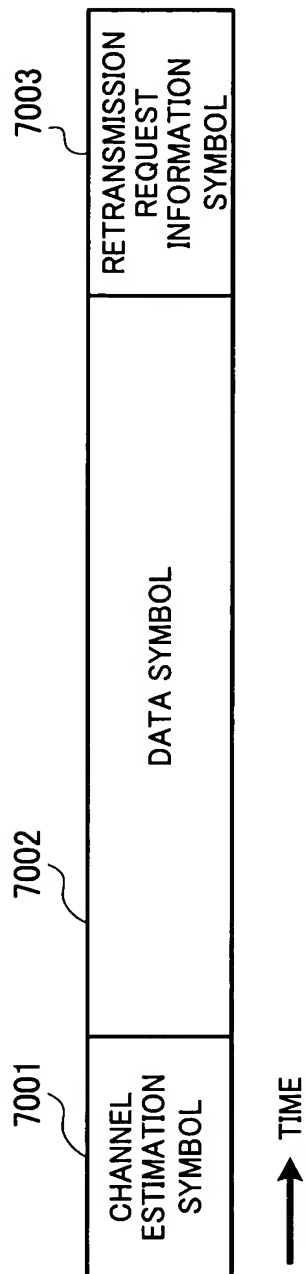


FIG.69

7000 MULTI-ANTENNA TRANSMISSION APPARATUS

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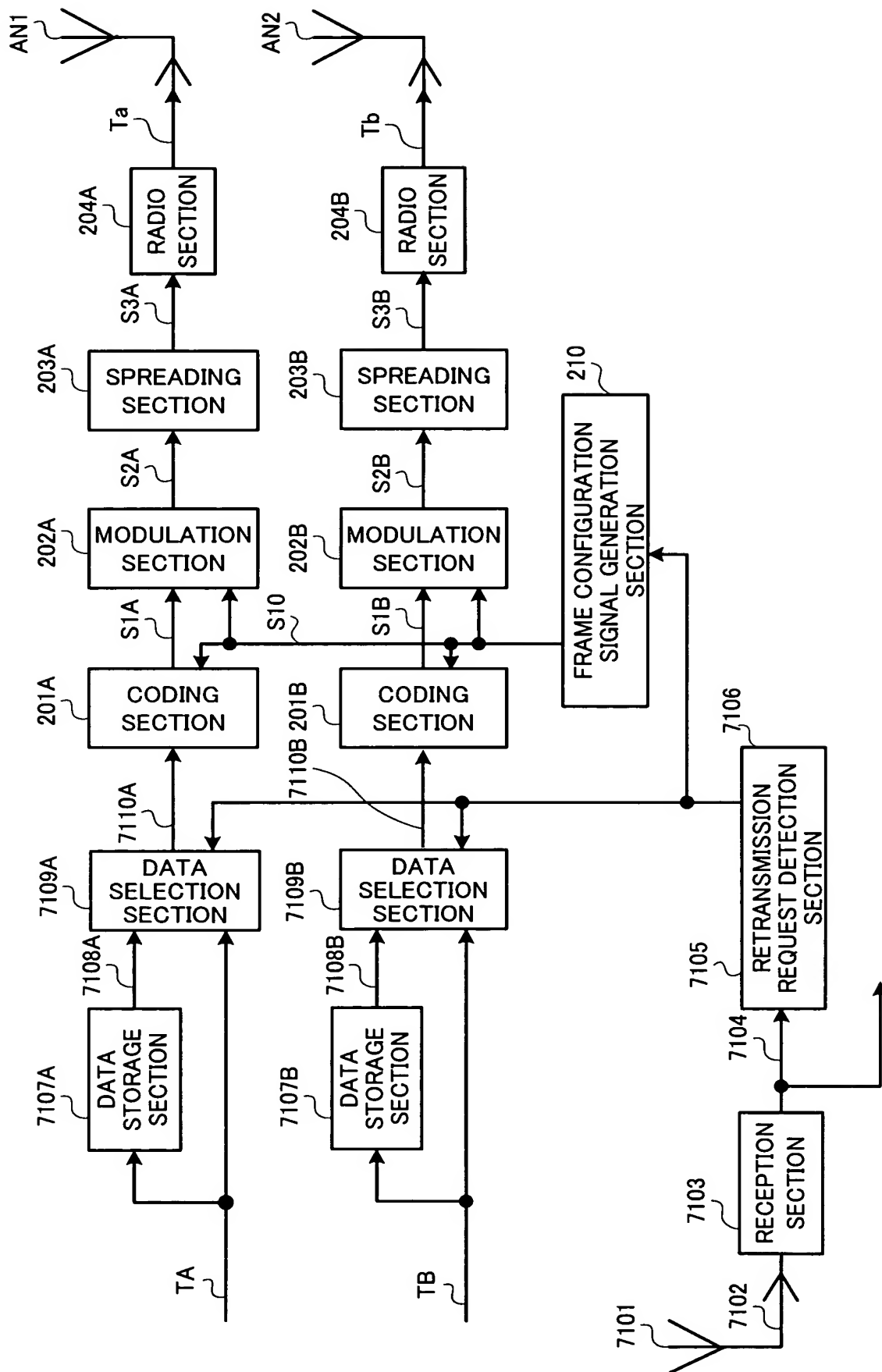


FIG.70

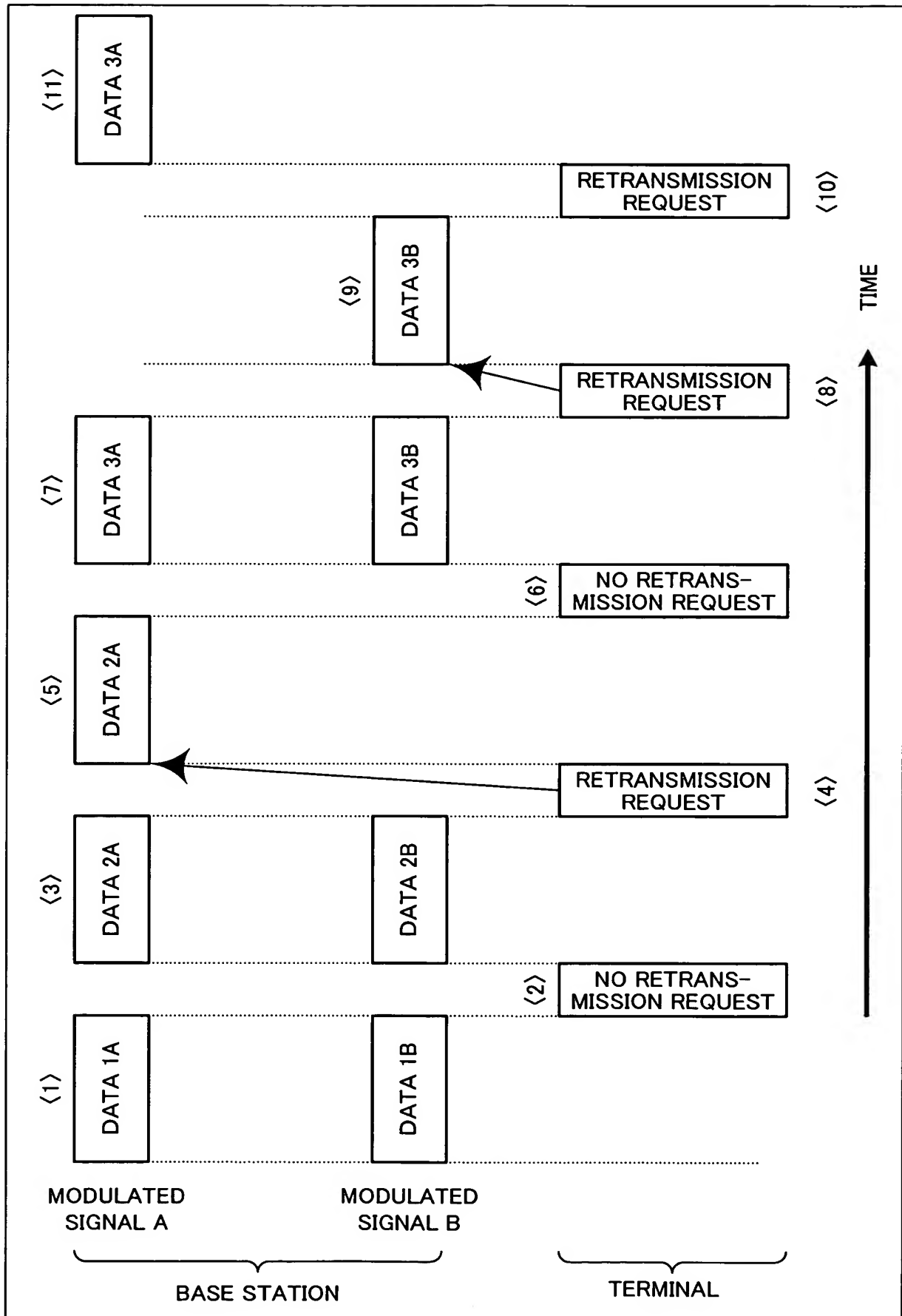


FIG.71

7200 MULTI-ANTENNA RECEPTION APPARATUS

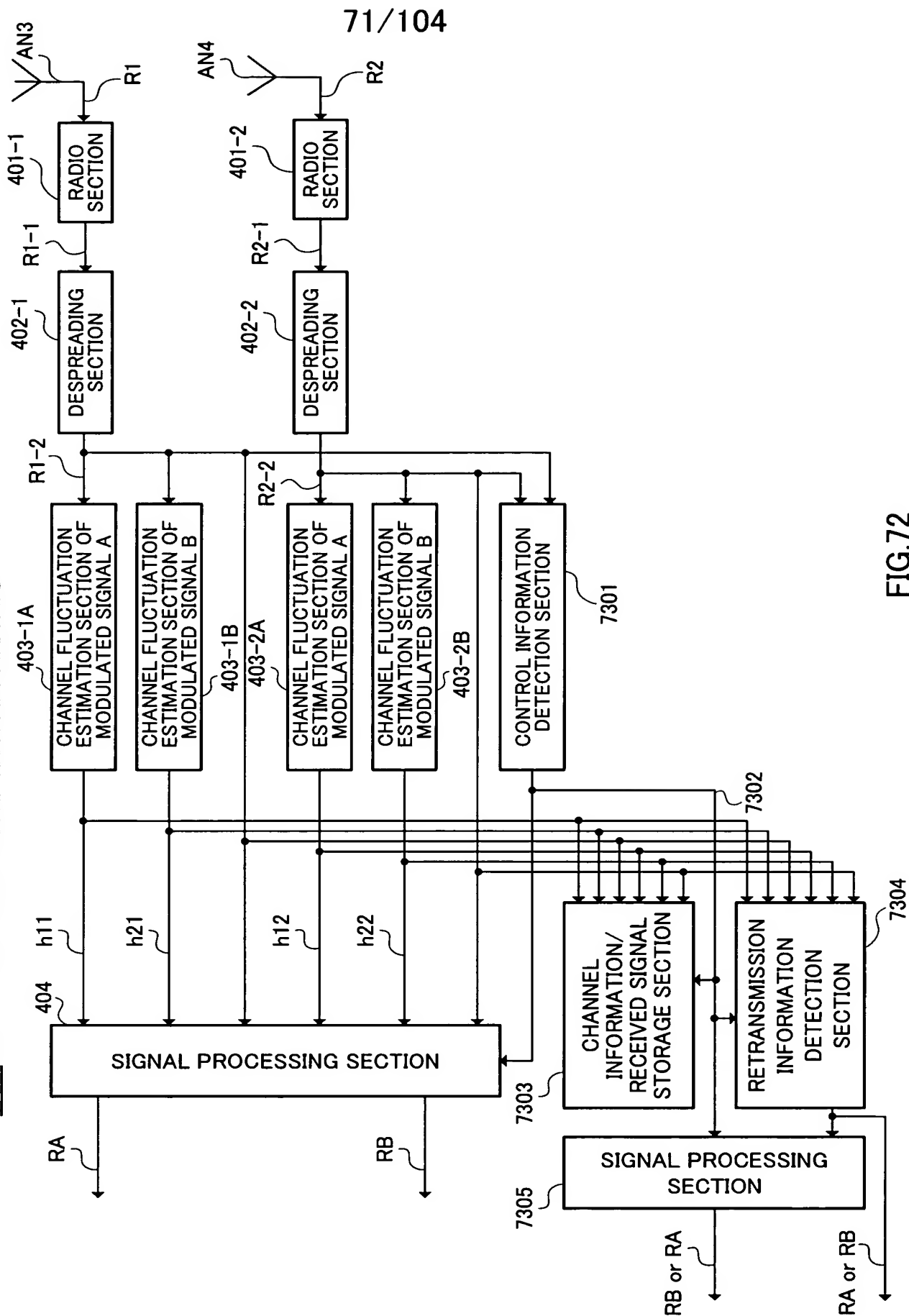


FIG.72

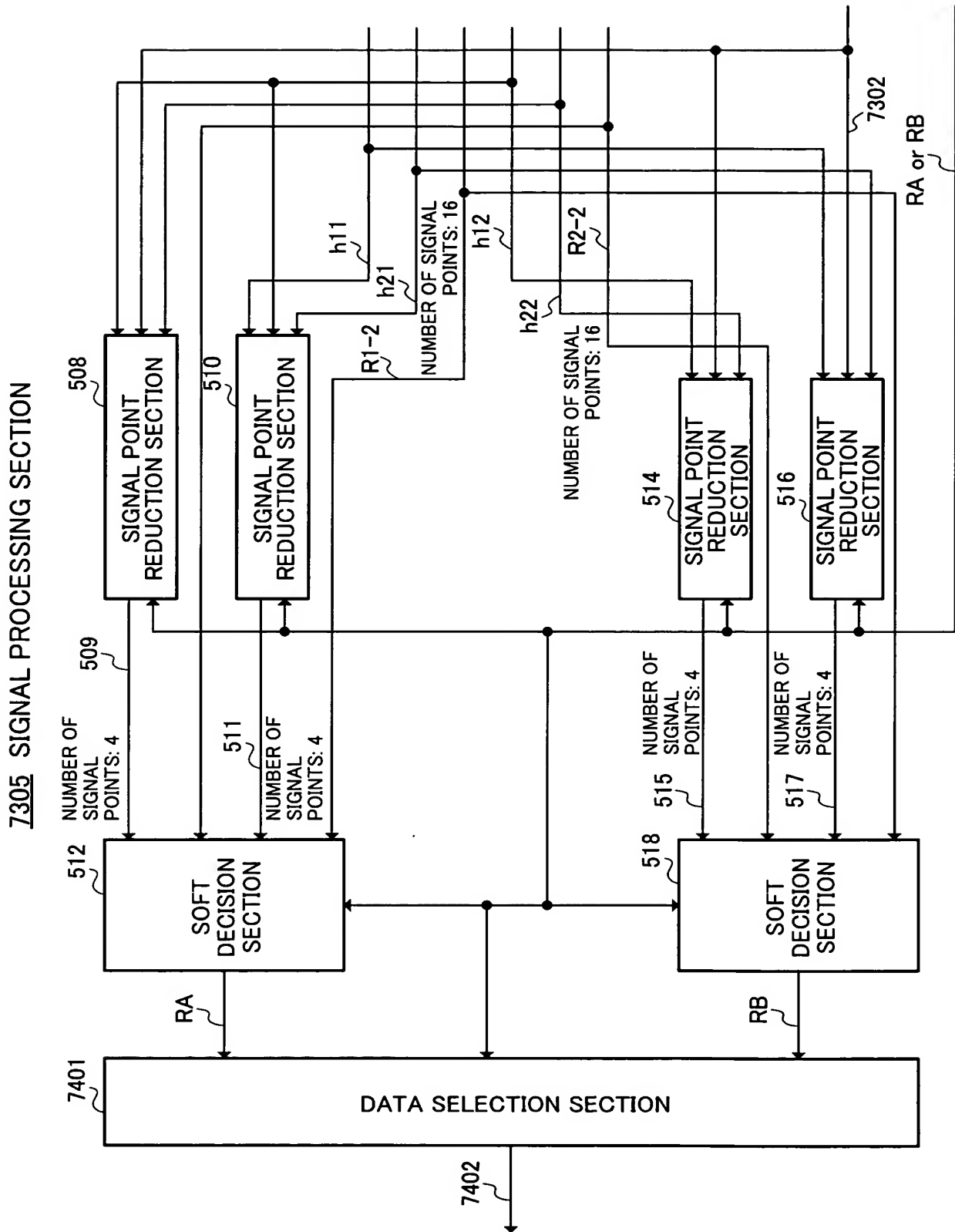


FIG.73

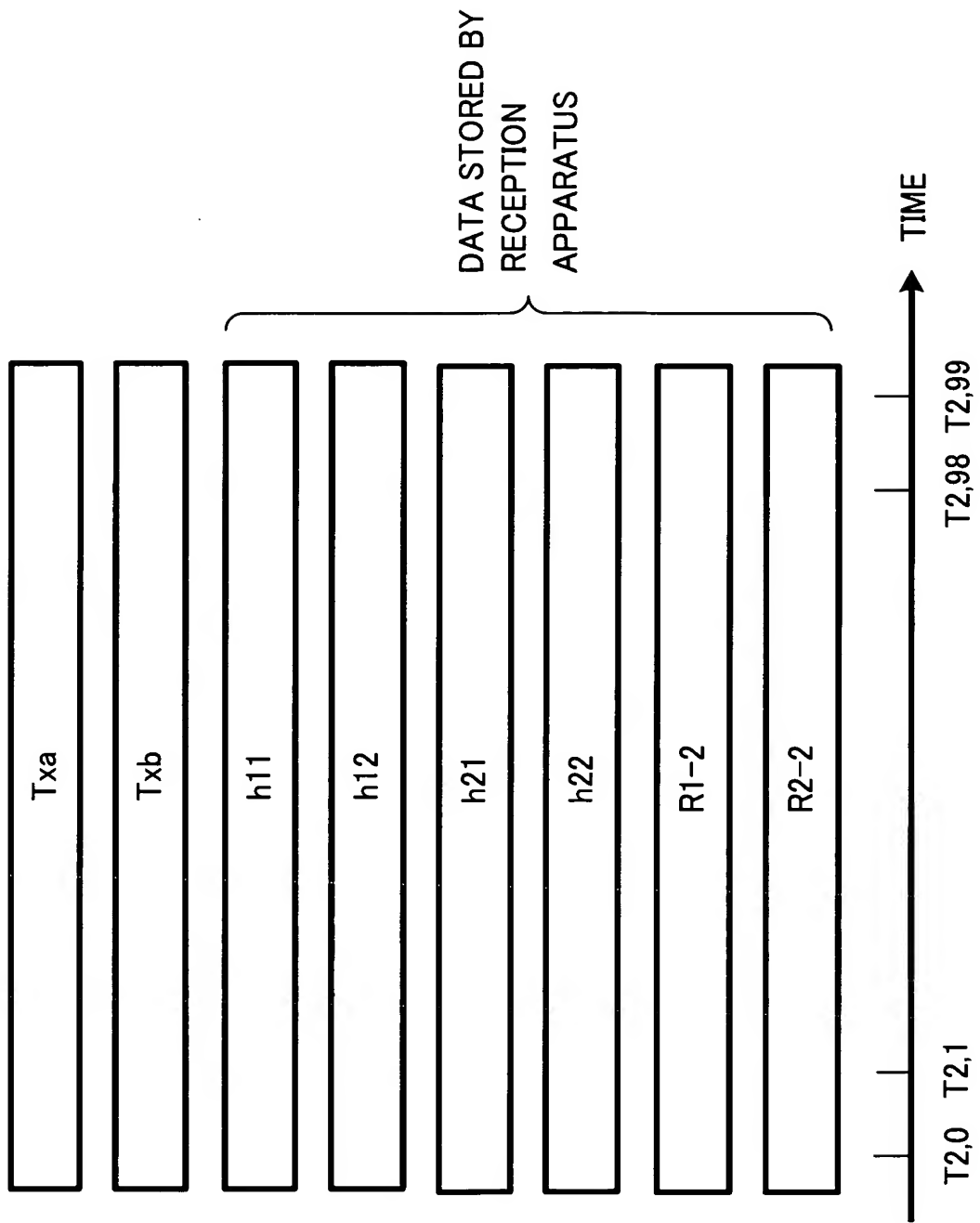


FIG.74

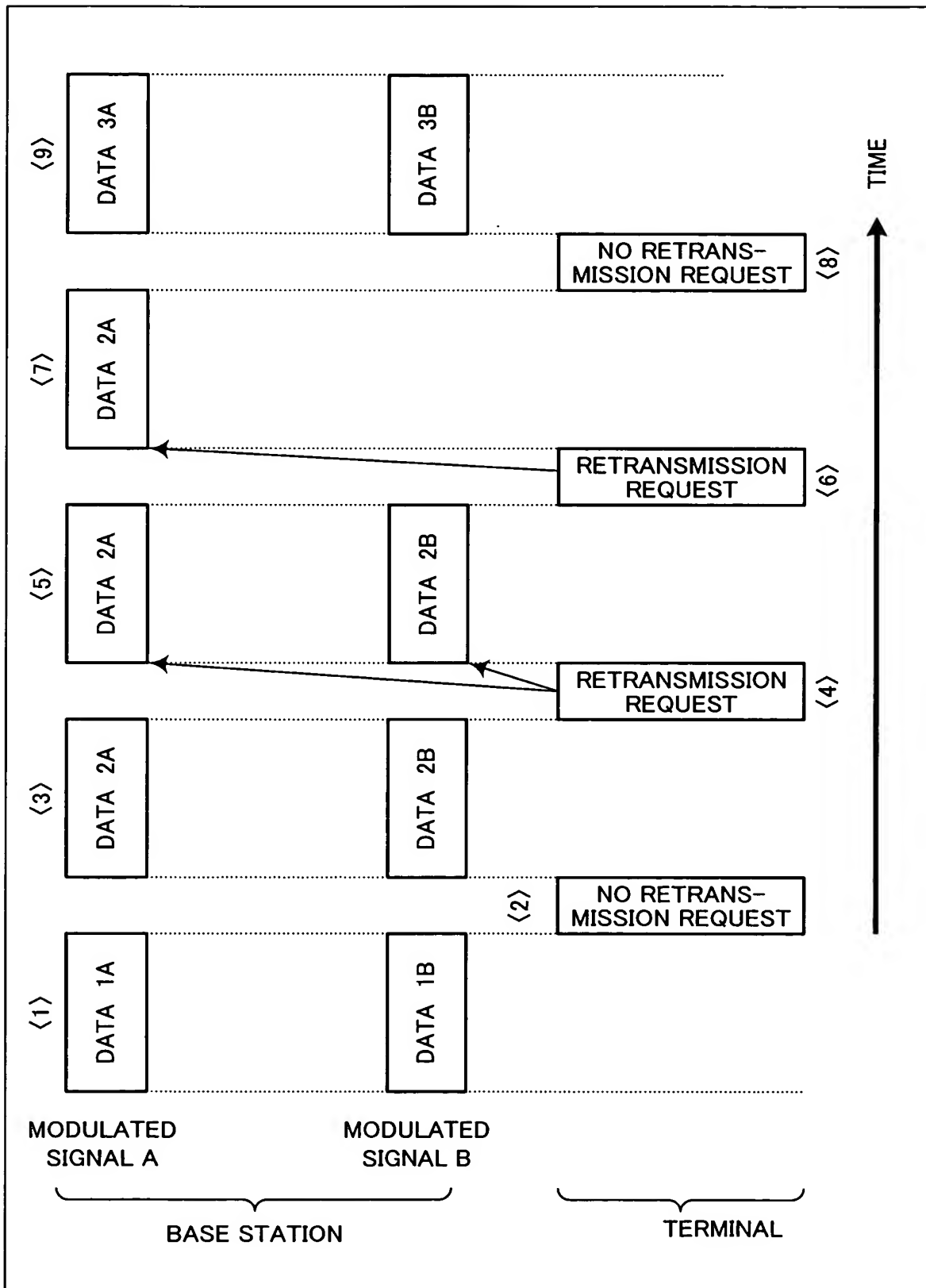


FIG.75

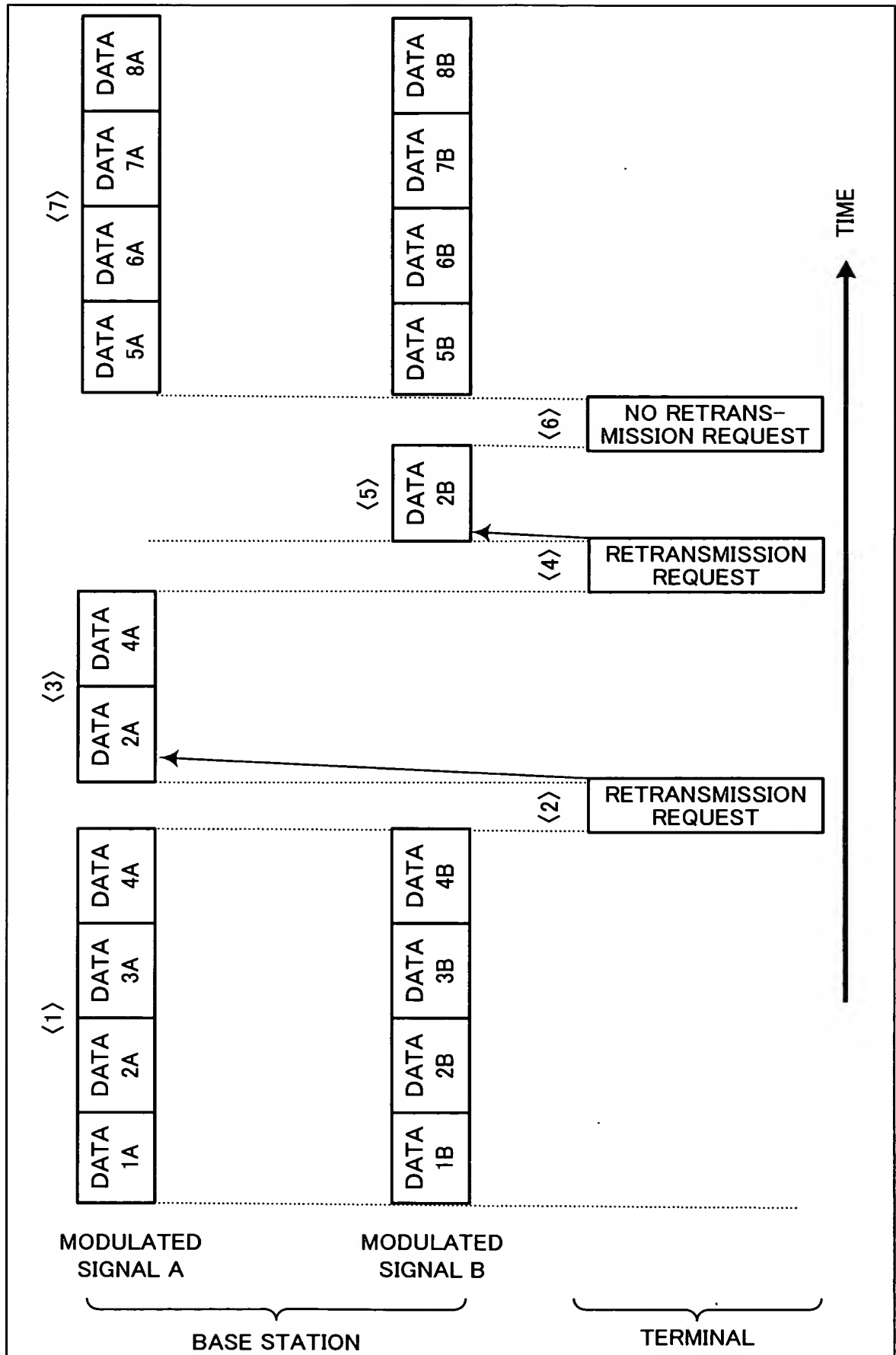


FIG.76

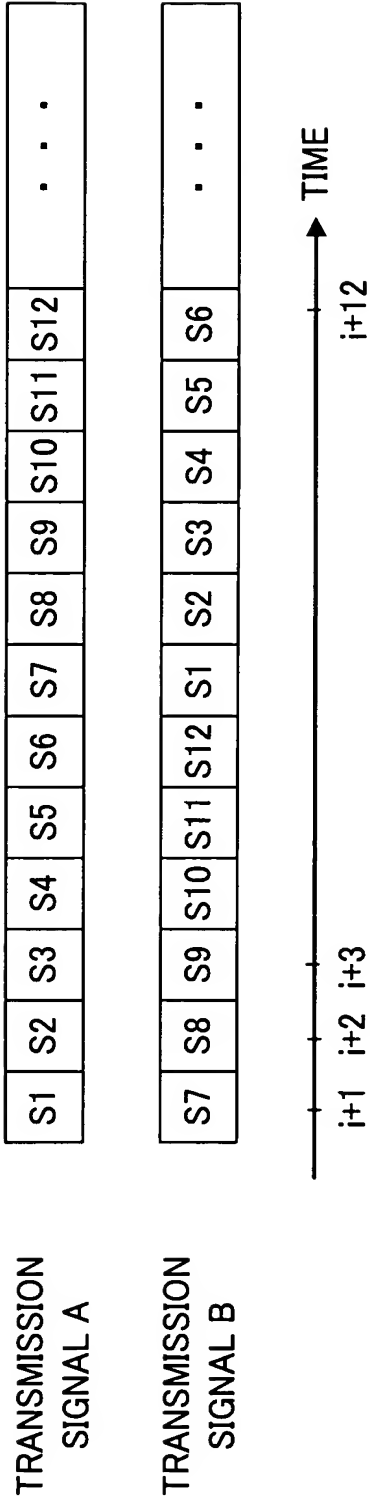


FIG.77

7700 MULTI-ANTENNA TRANSMISSION APPARATUS

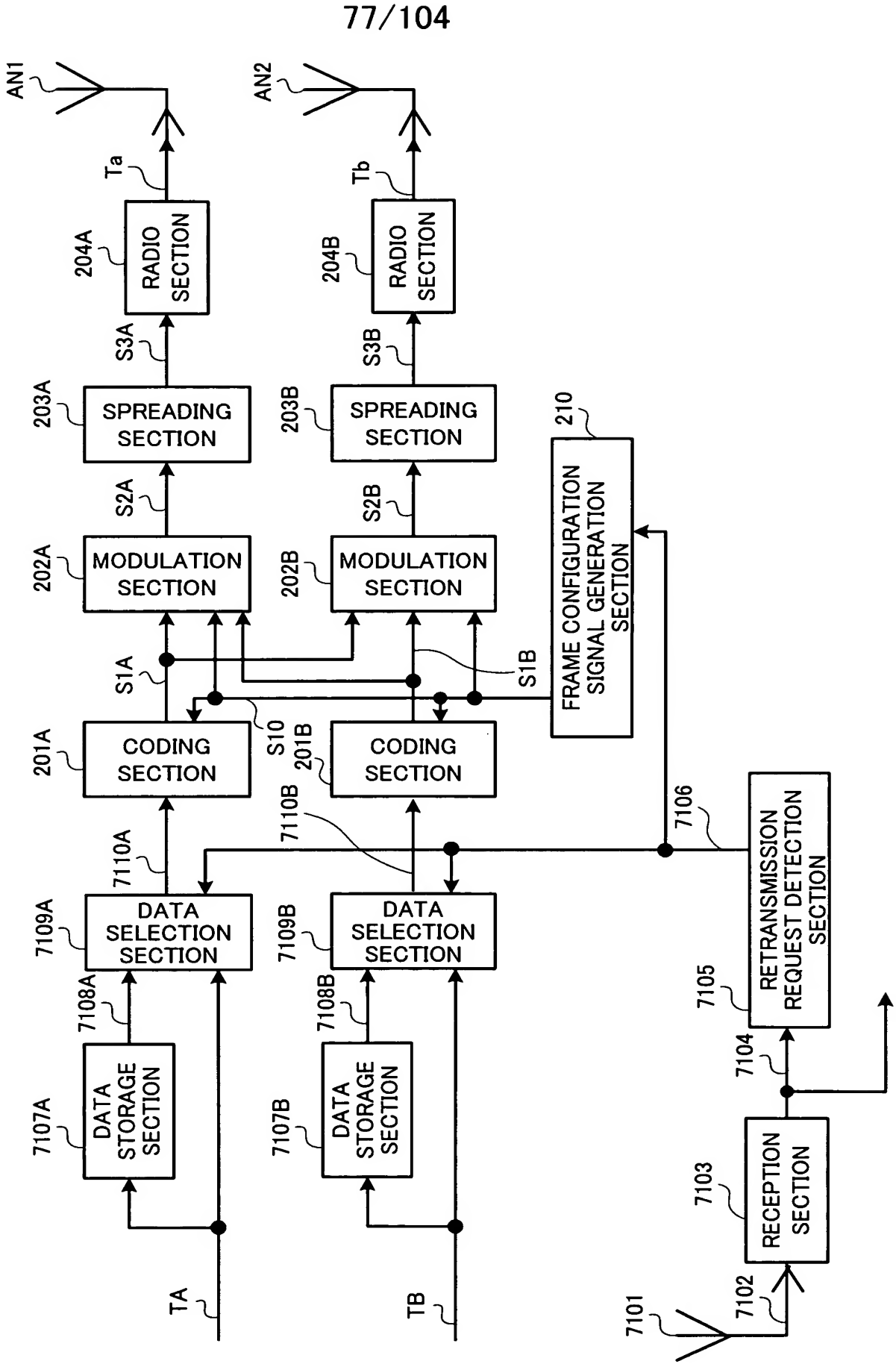


FIG.78

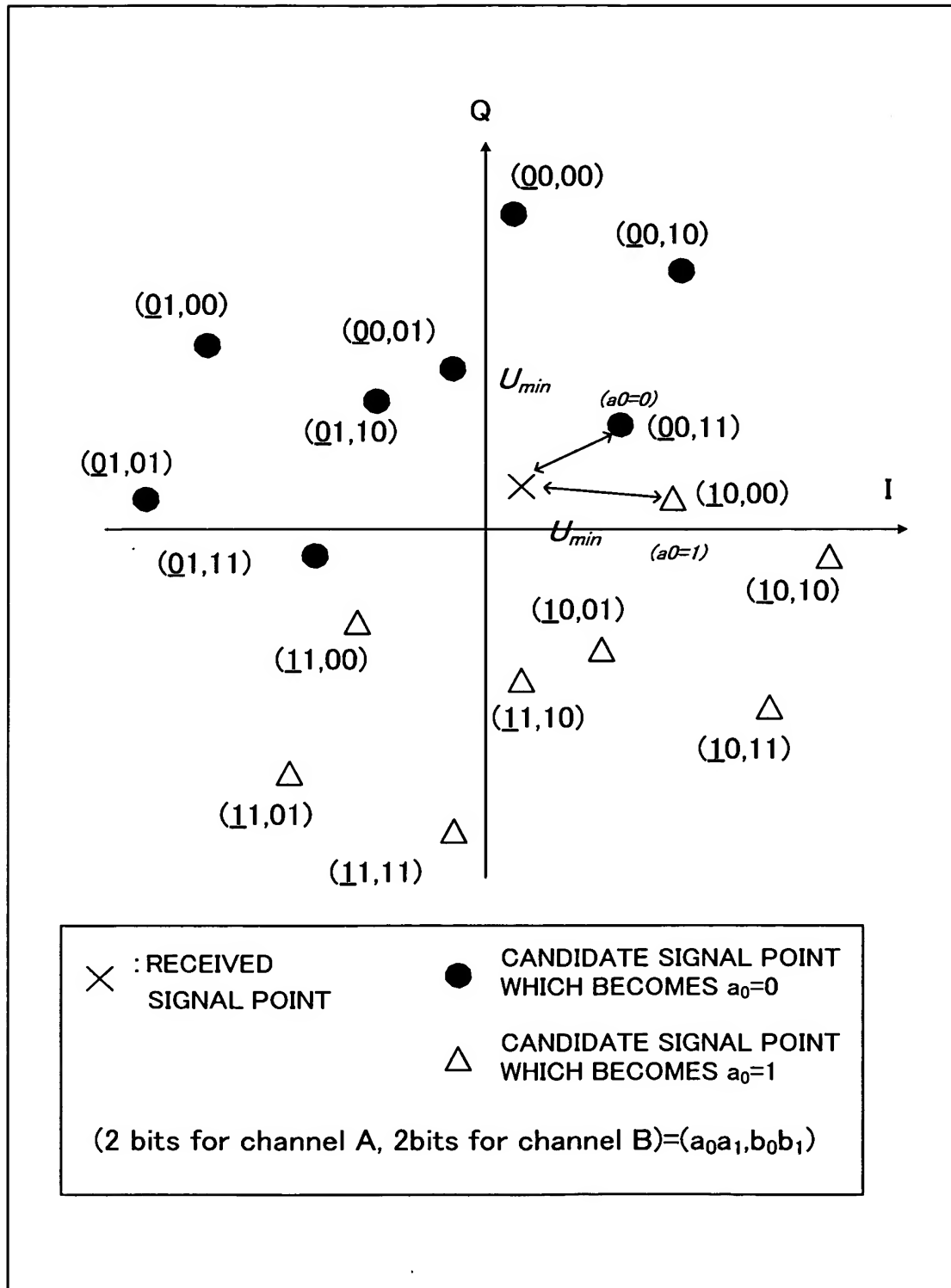


FIG.79

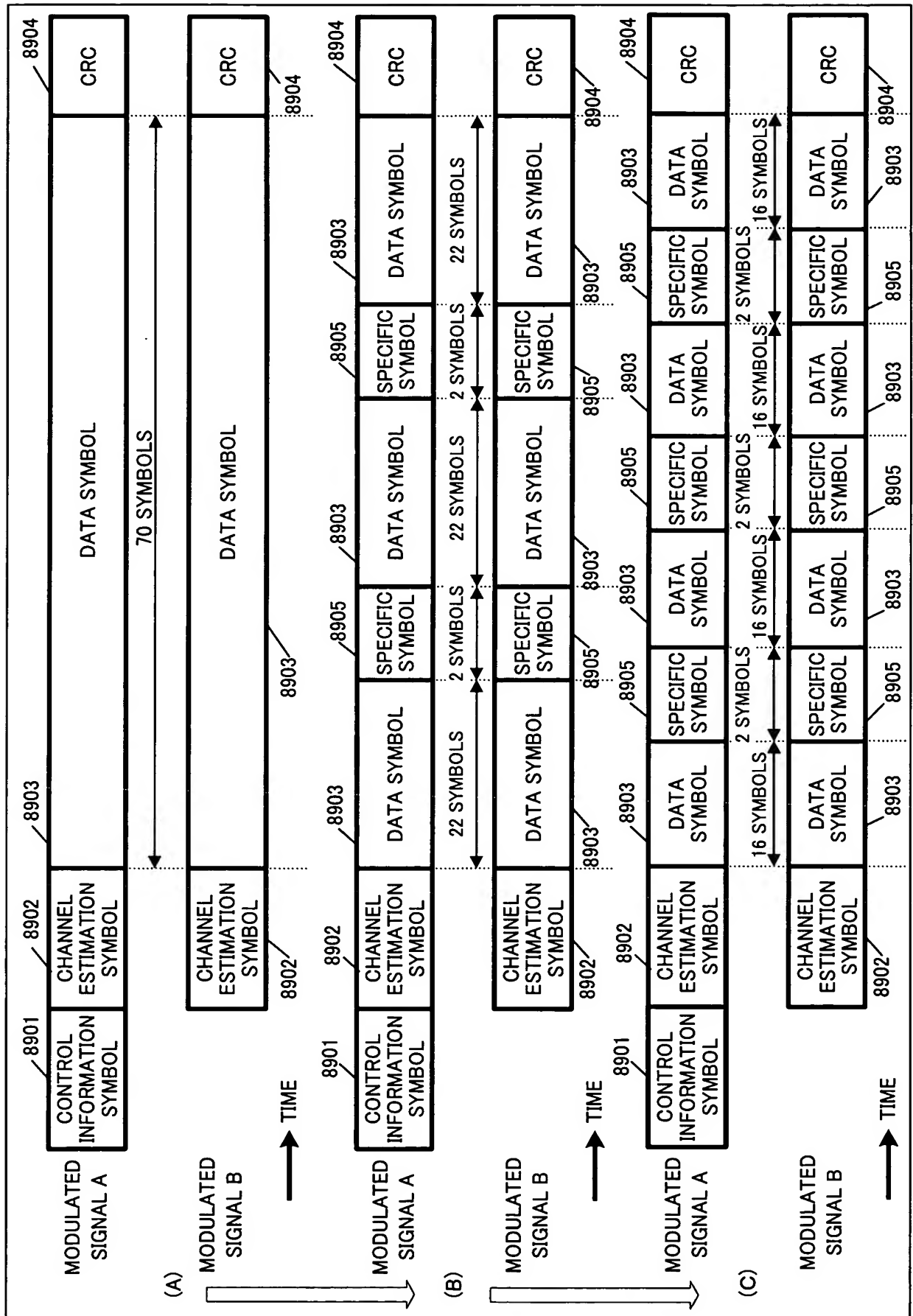


FIG.80

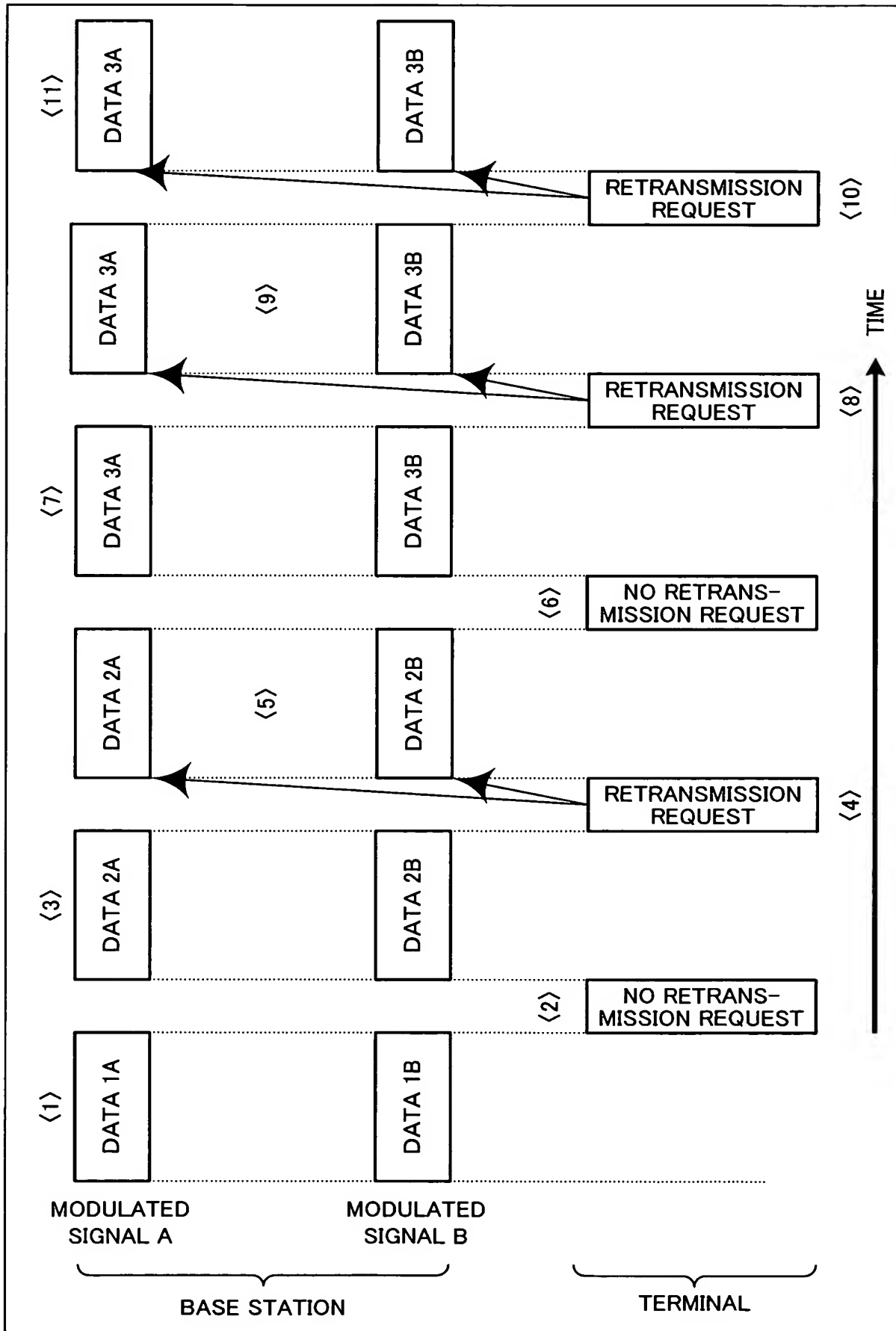


FIG.81

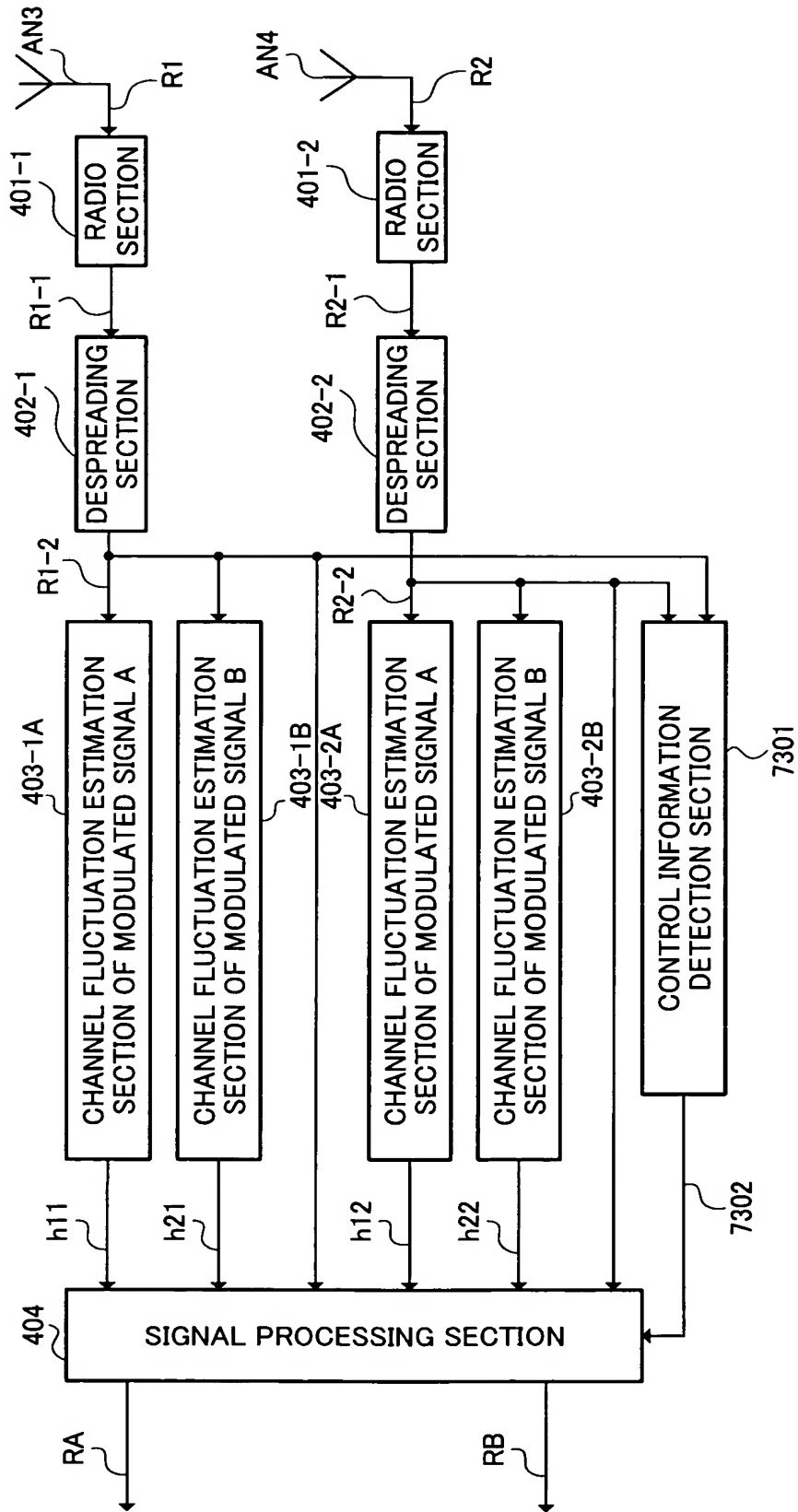


FIG.82

7900 MULTI-ANTENNA TRANSMISSION APPARATUS

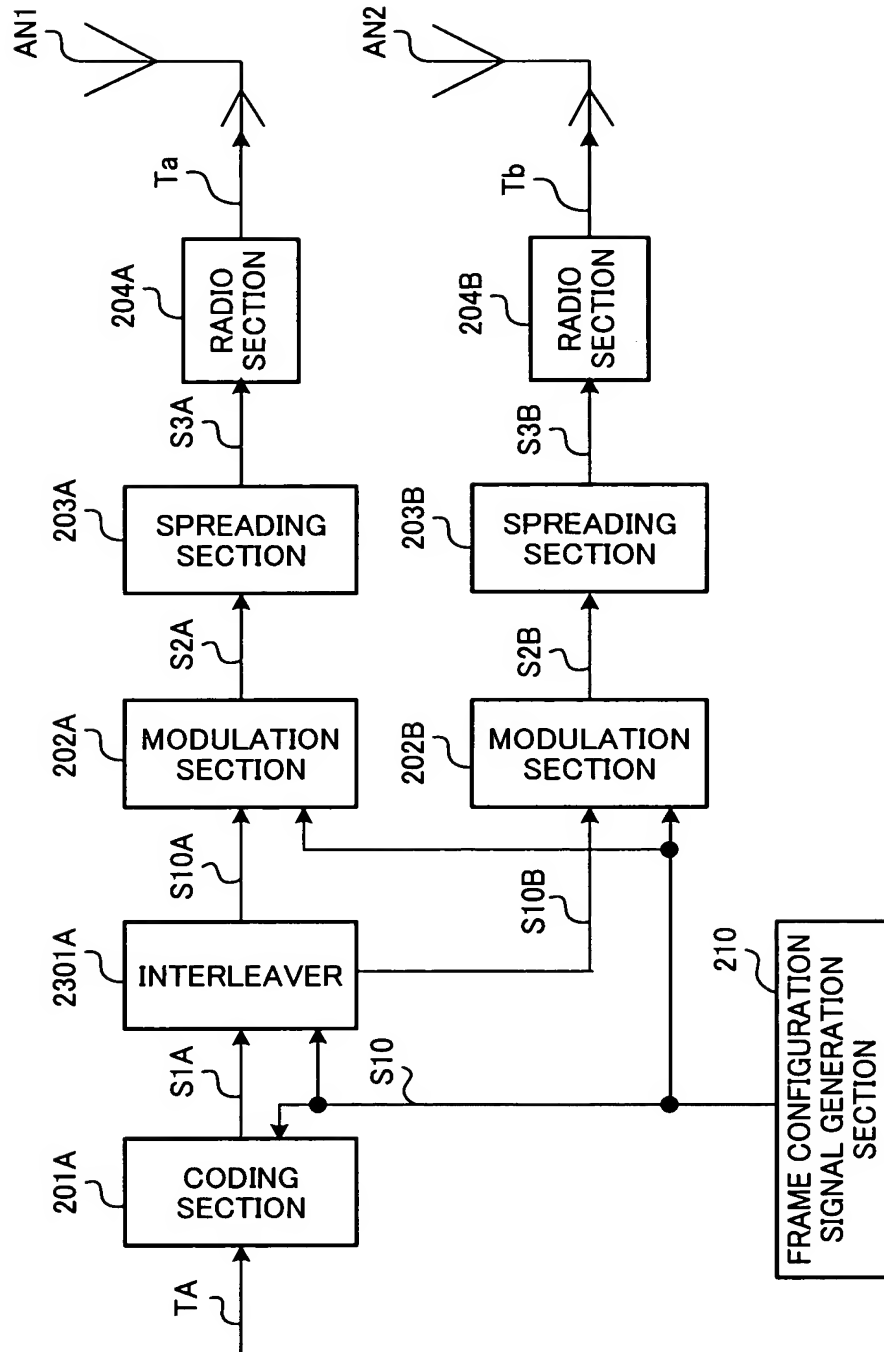


FIG.83

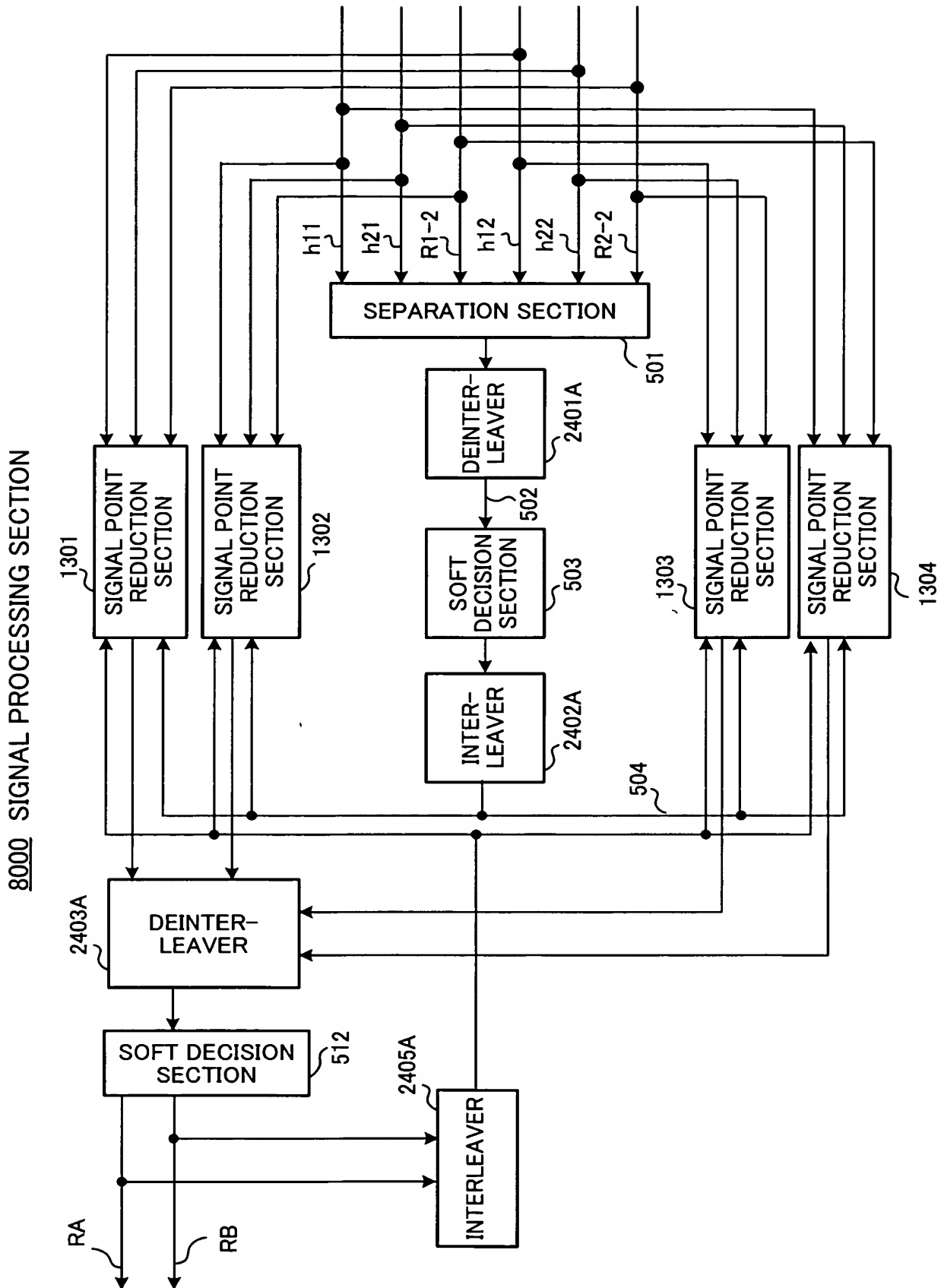


FIG.84

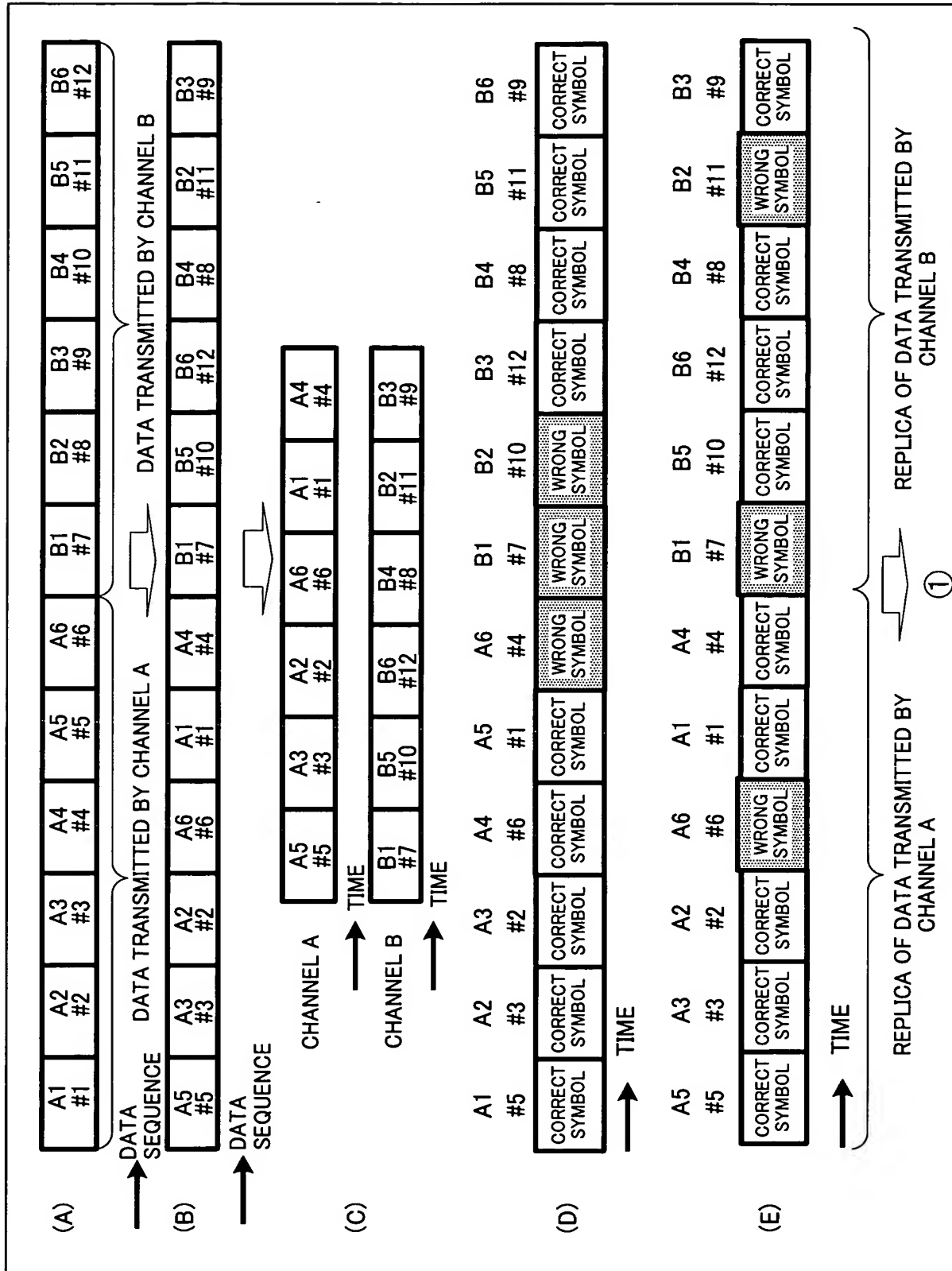


FIG.85-1

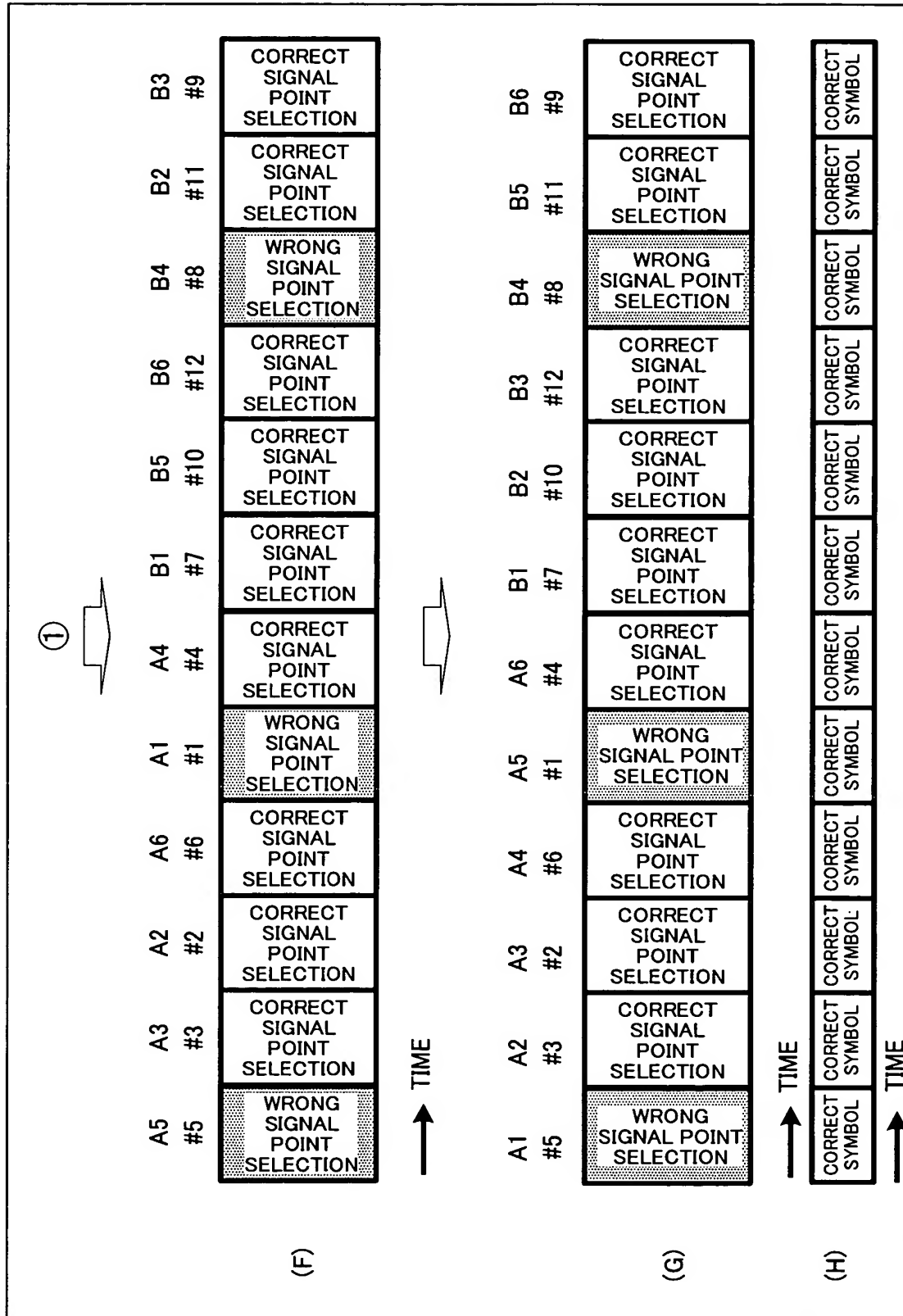


FIG.85-2

8200 MULTI-ANTENNA TRANSMISSION APPARATUS

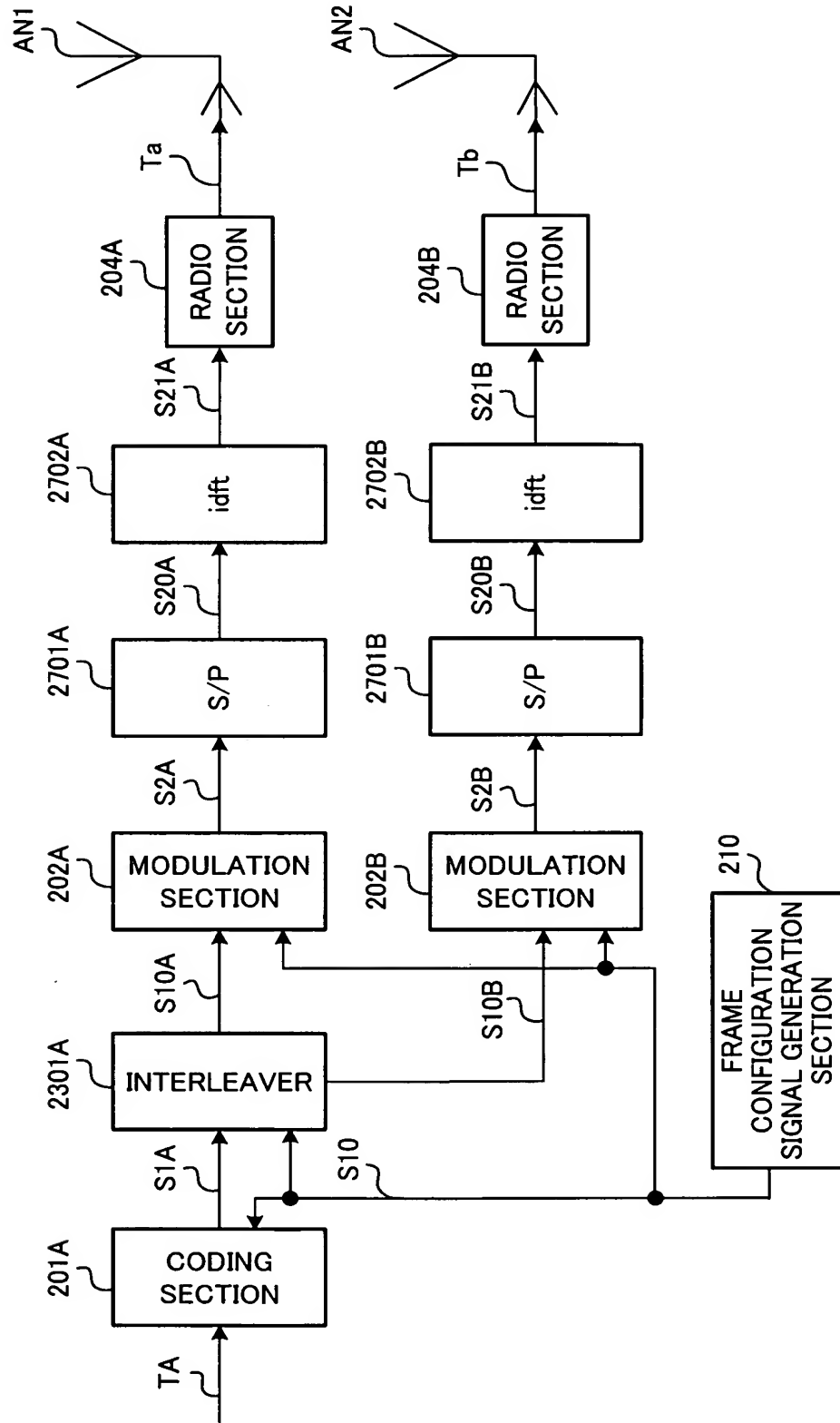


FIG.86

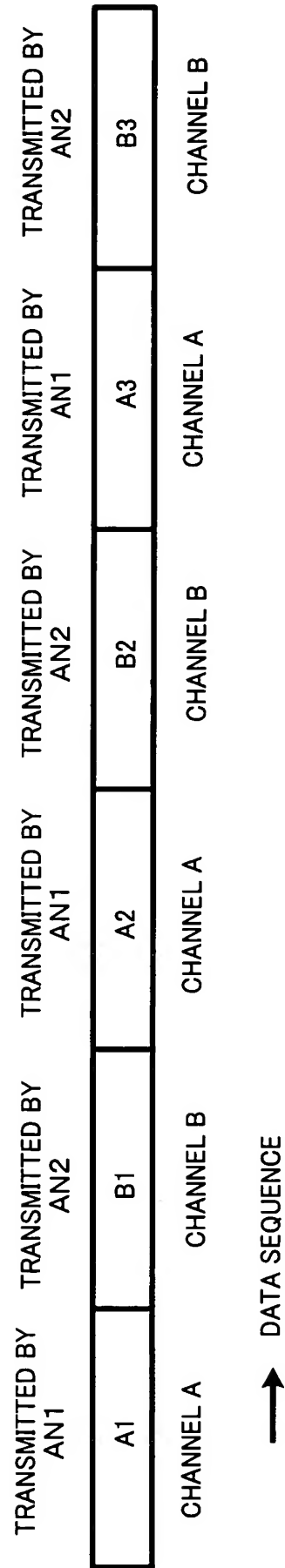
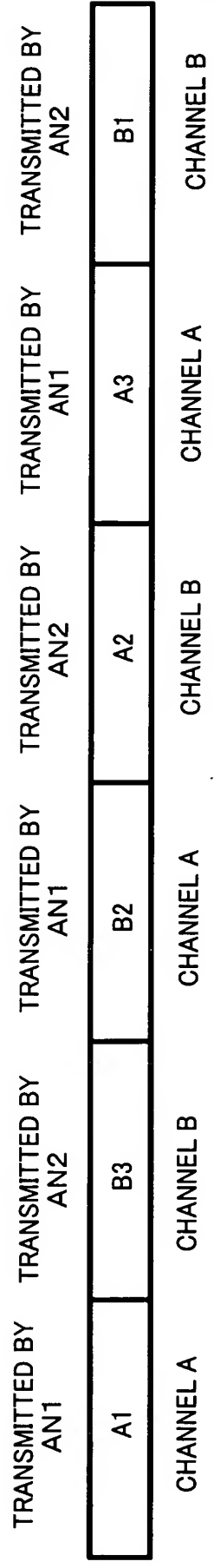


FIG.87



→ DATA SEQUENCE

FIG.88

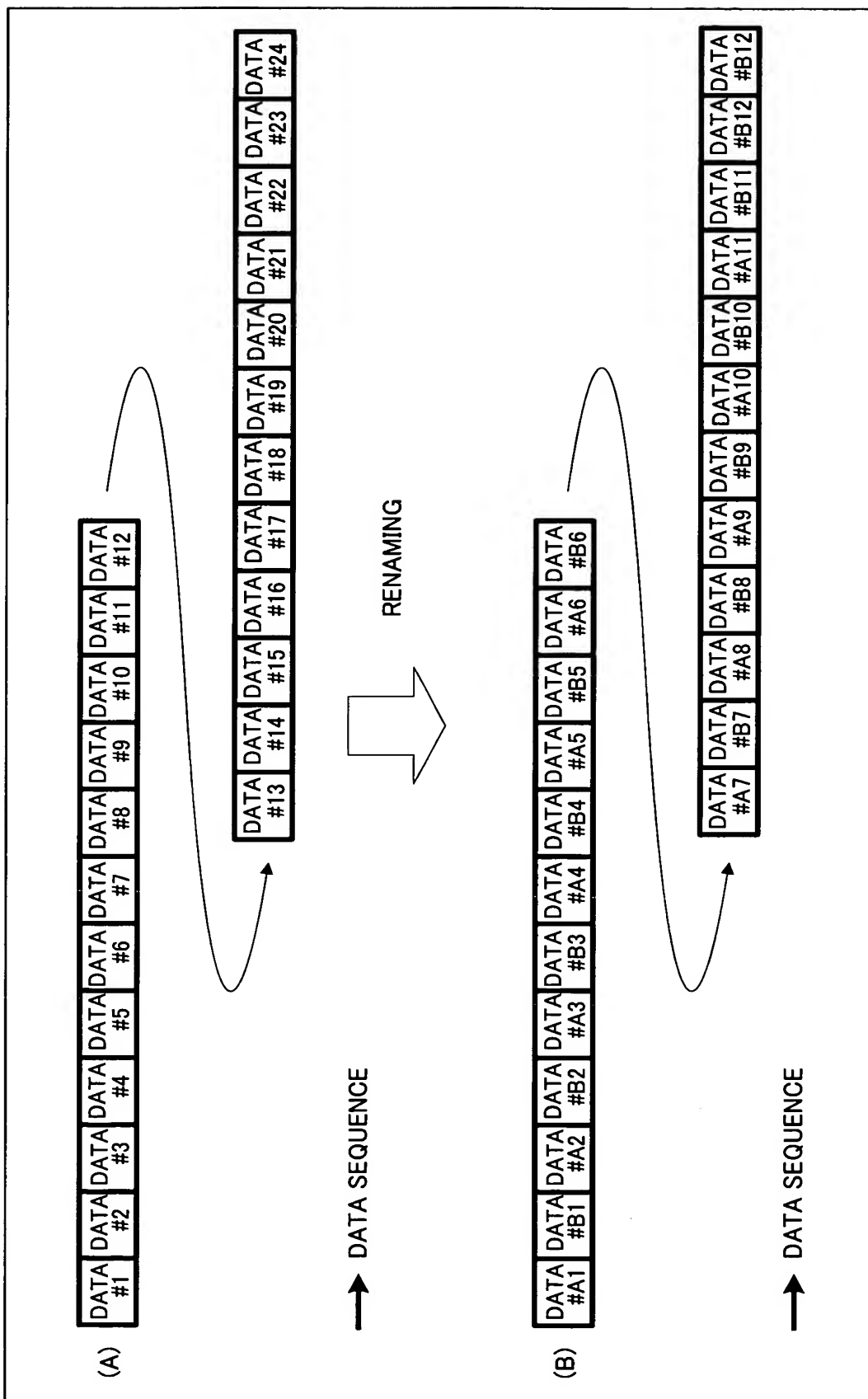


FIG. 89

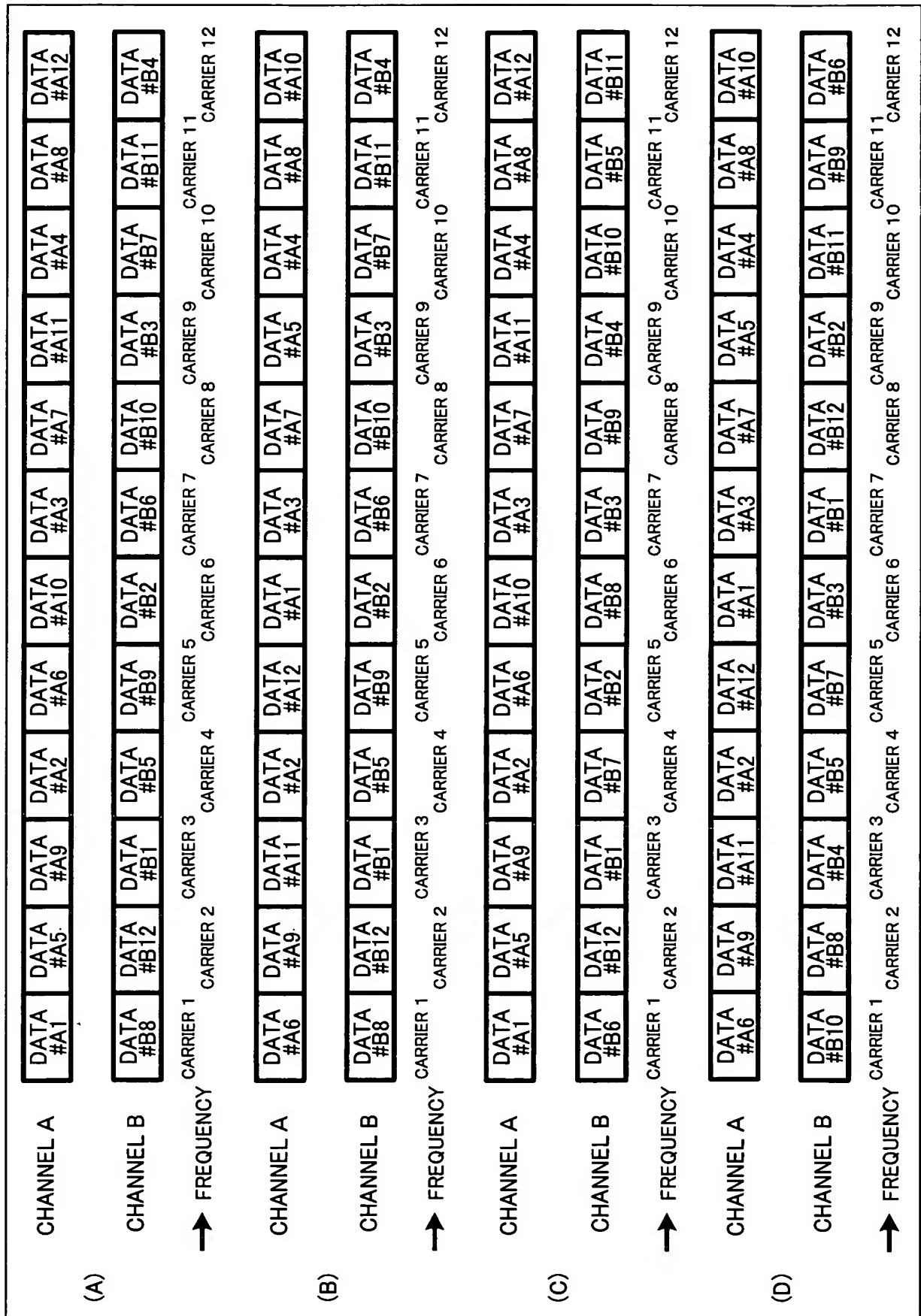


FIG.90

8400 MULTI-ANTENNA TRANSMISSION APPARATUS

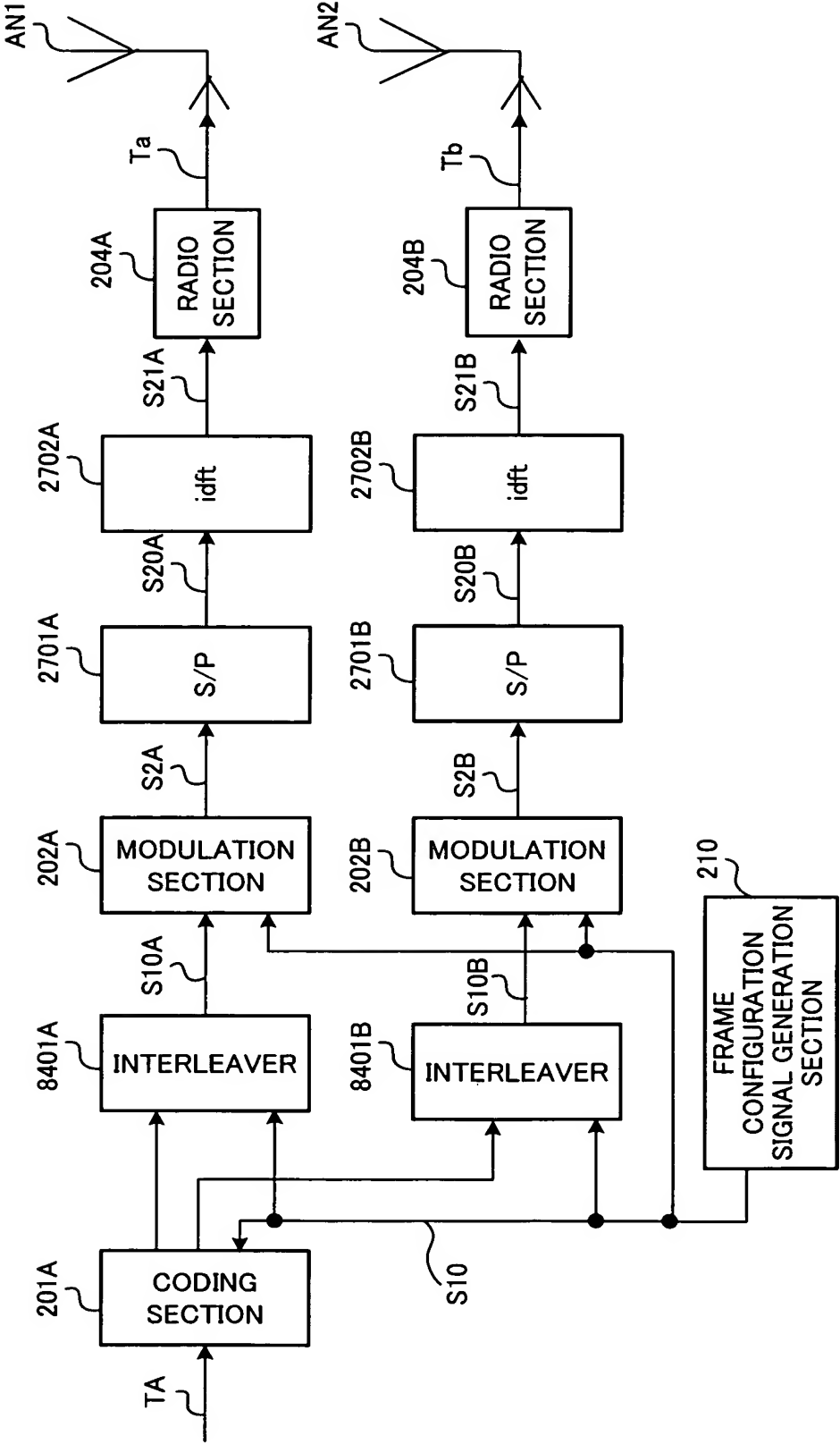


FIG.91

8300 MULTI-ANTENNA TRANSMISSION APPARATUS

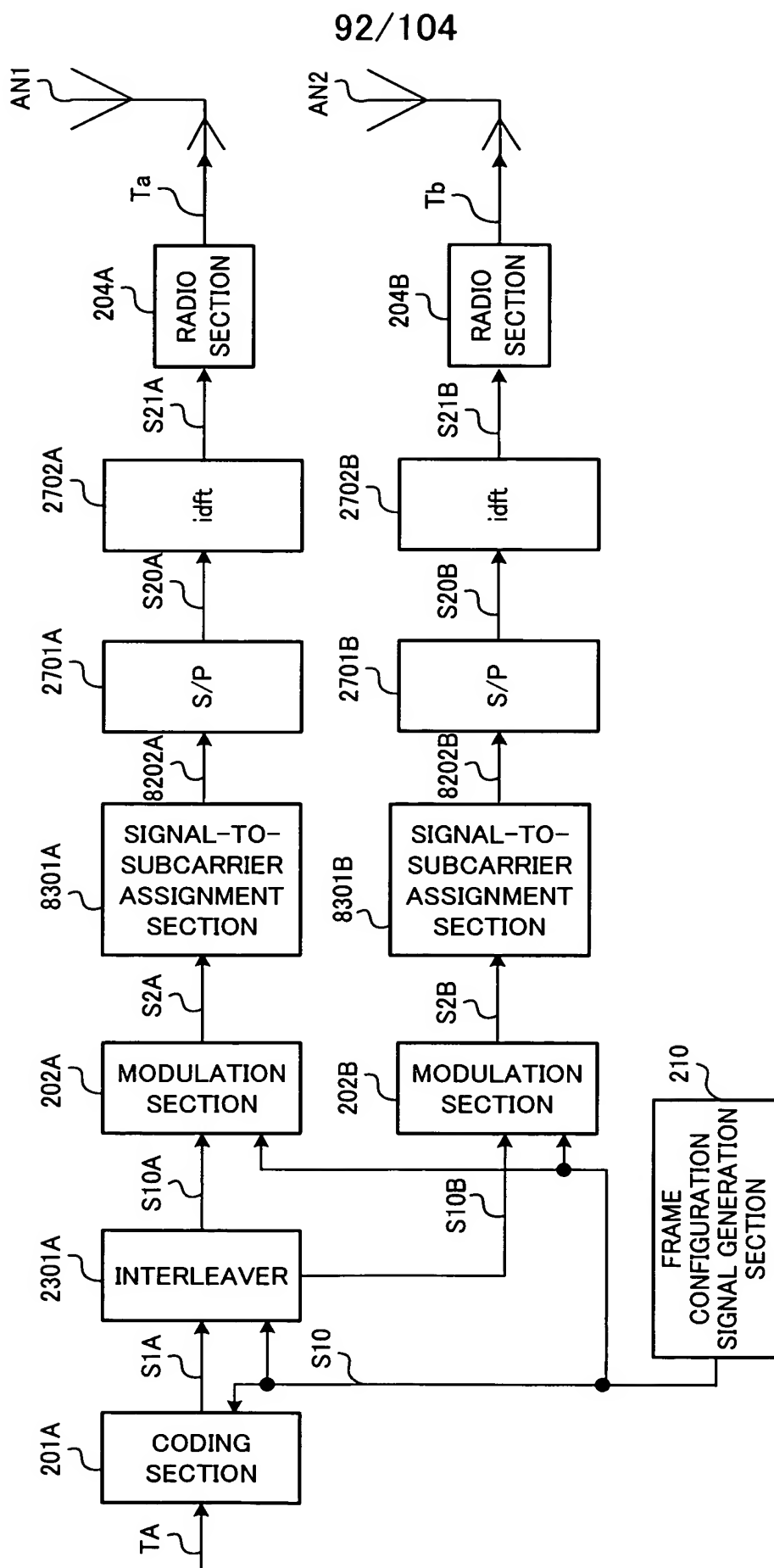


FIG.92

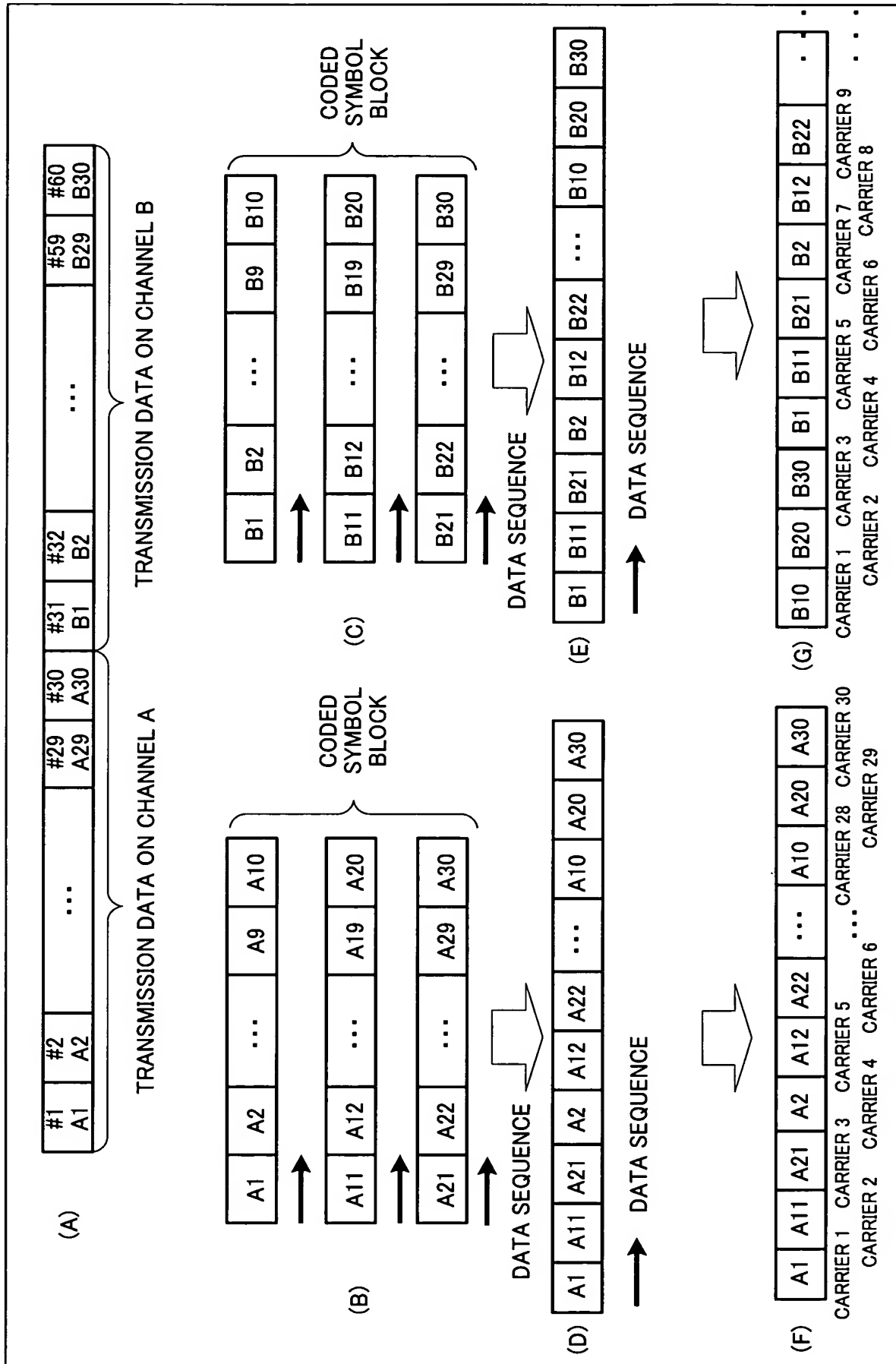


FIG.93

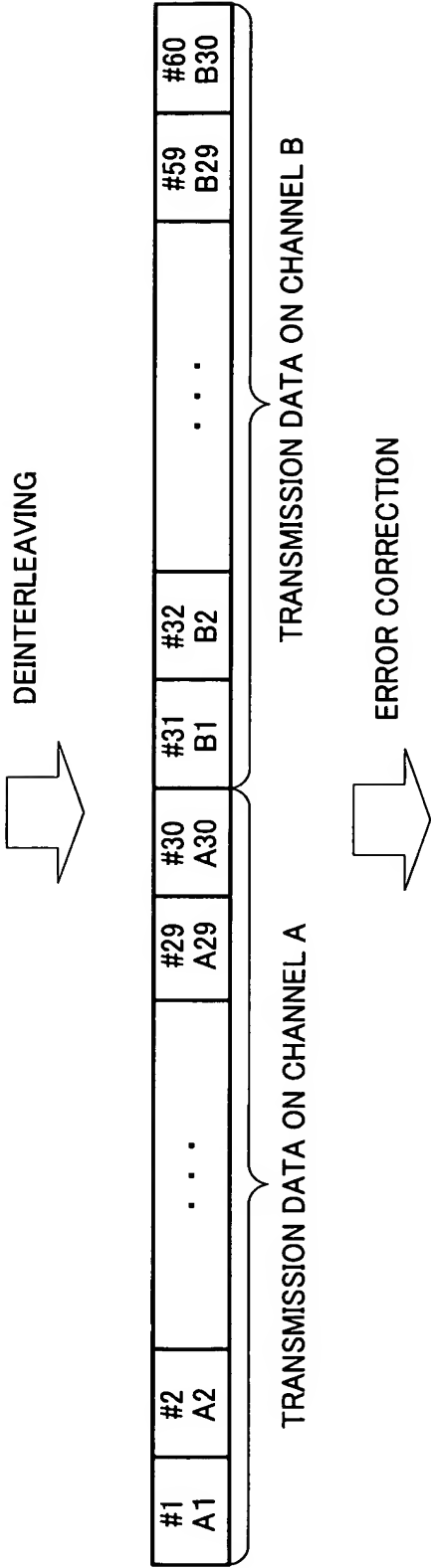


FIG.94

9000 MULTI-ANTENNA TRANSMISSION APPARATUS

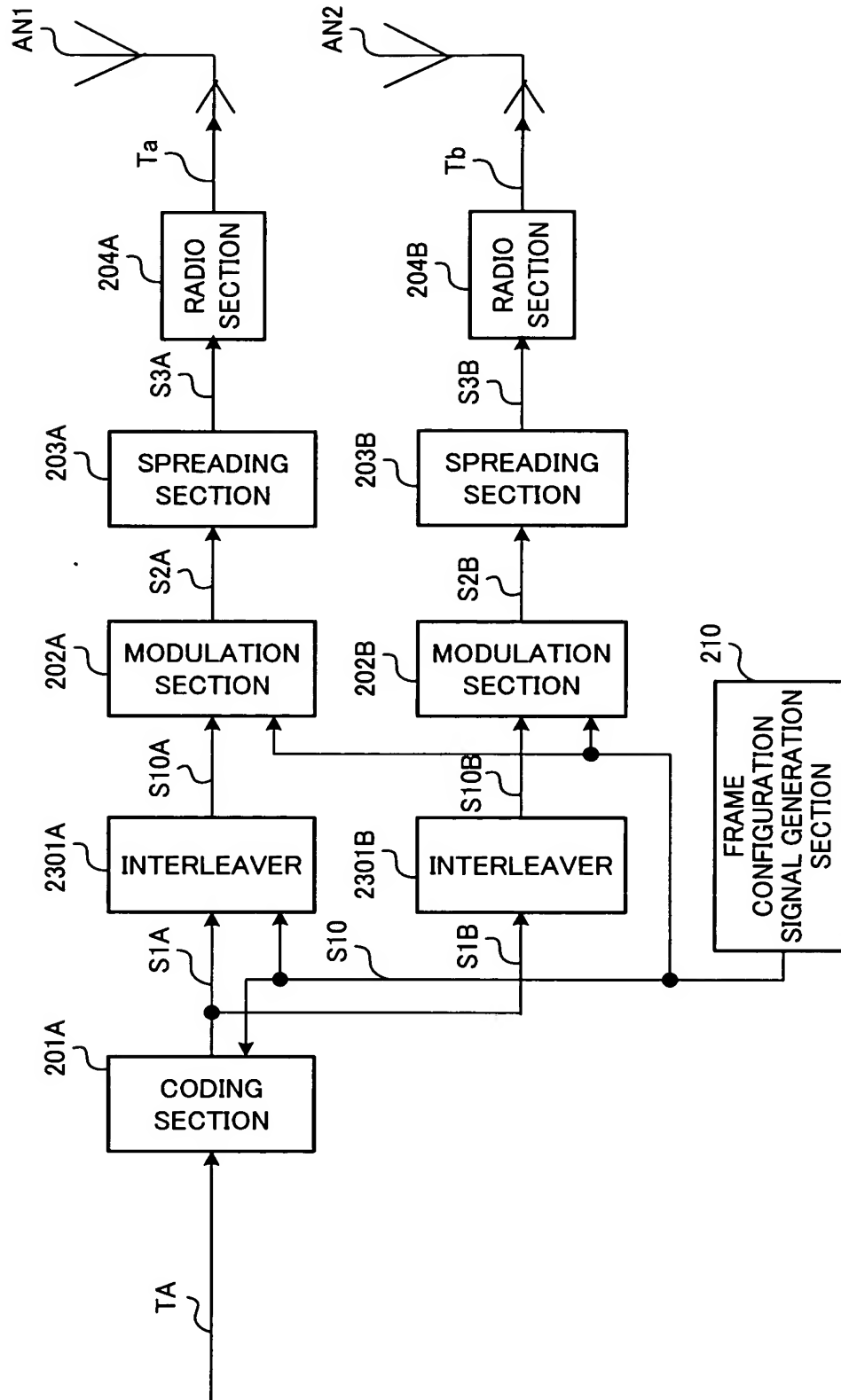


FIG.95

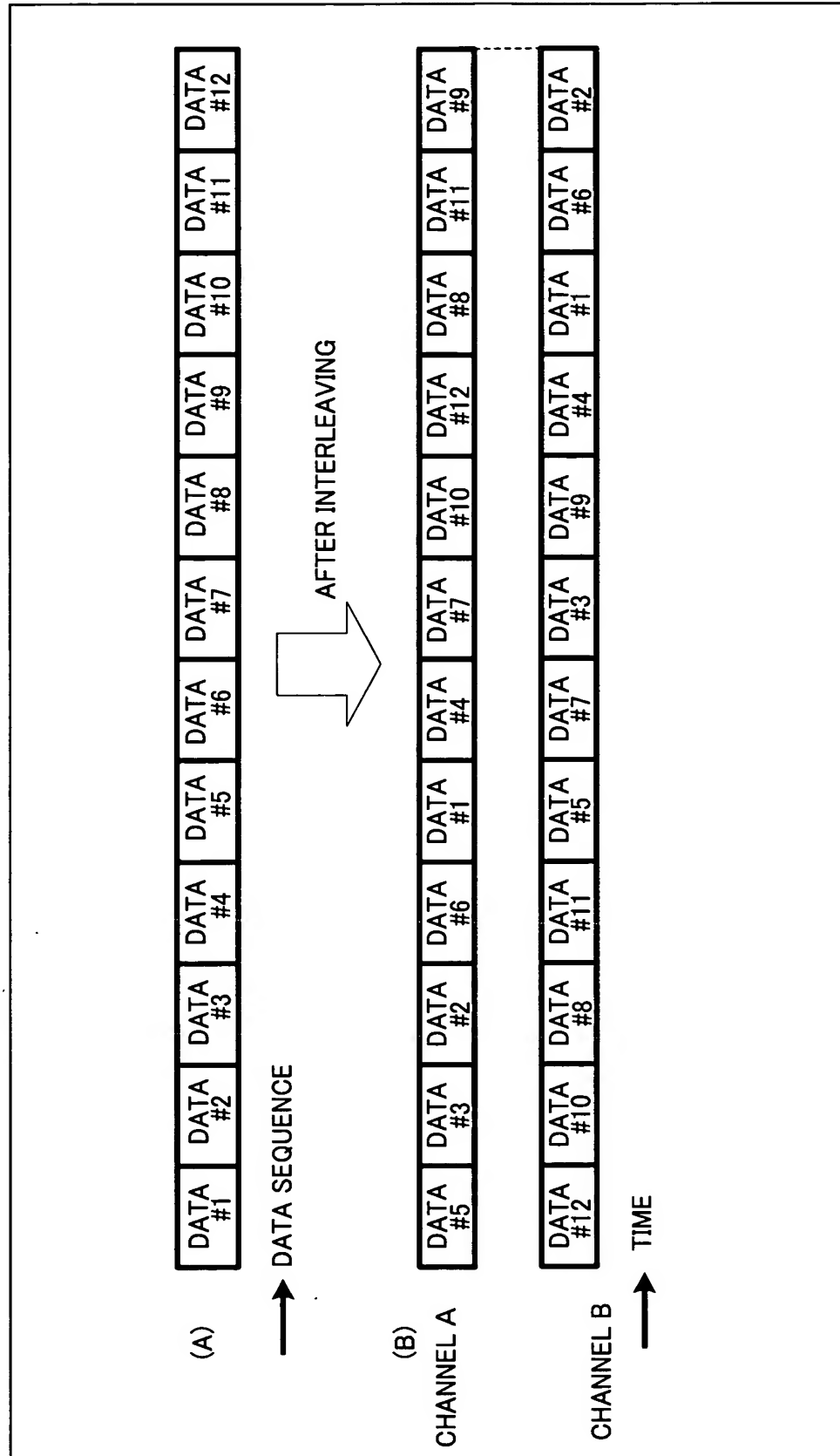


FIG.96

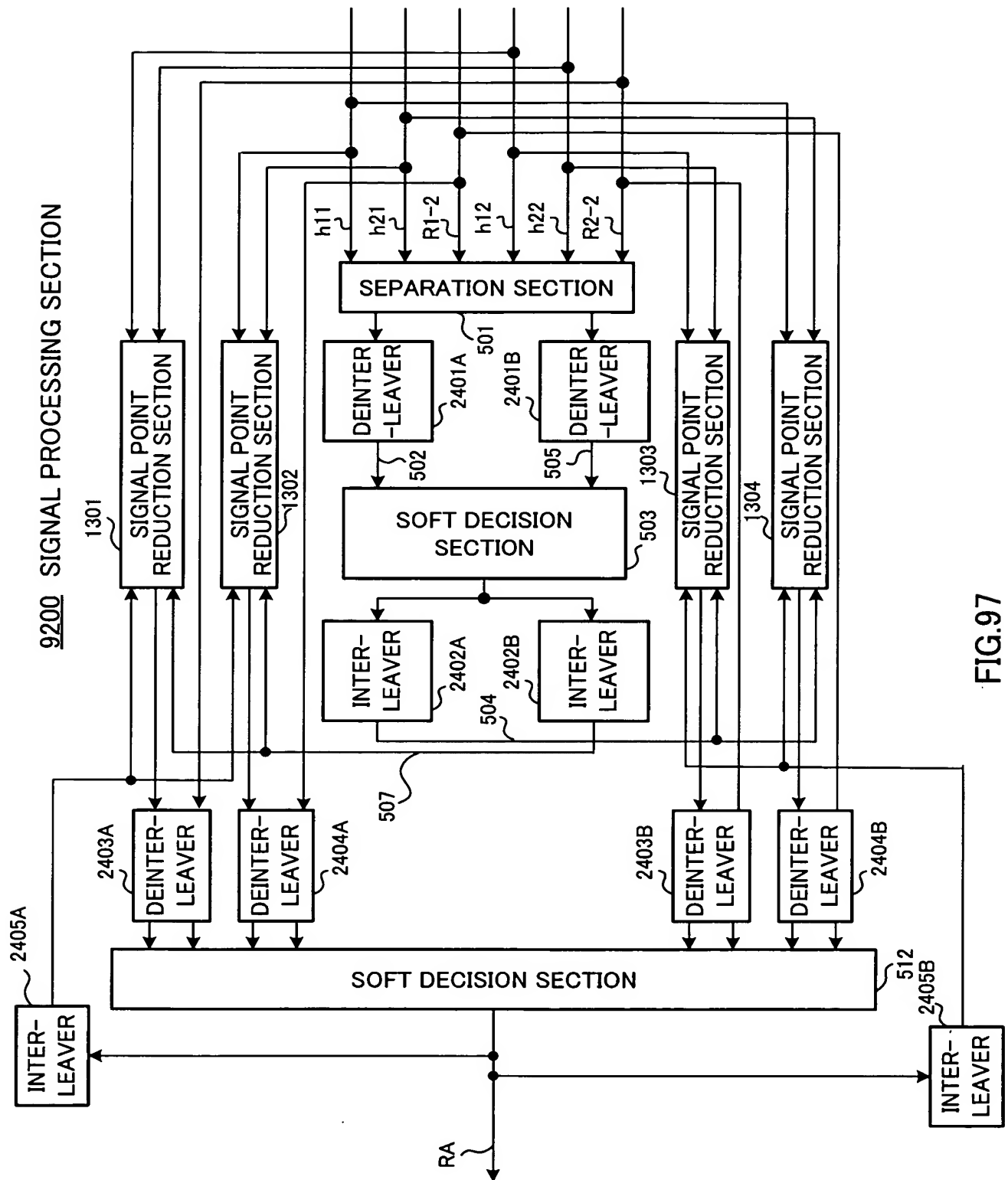


FIG.97

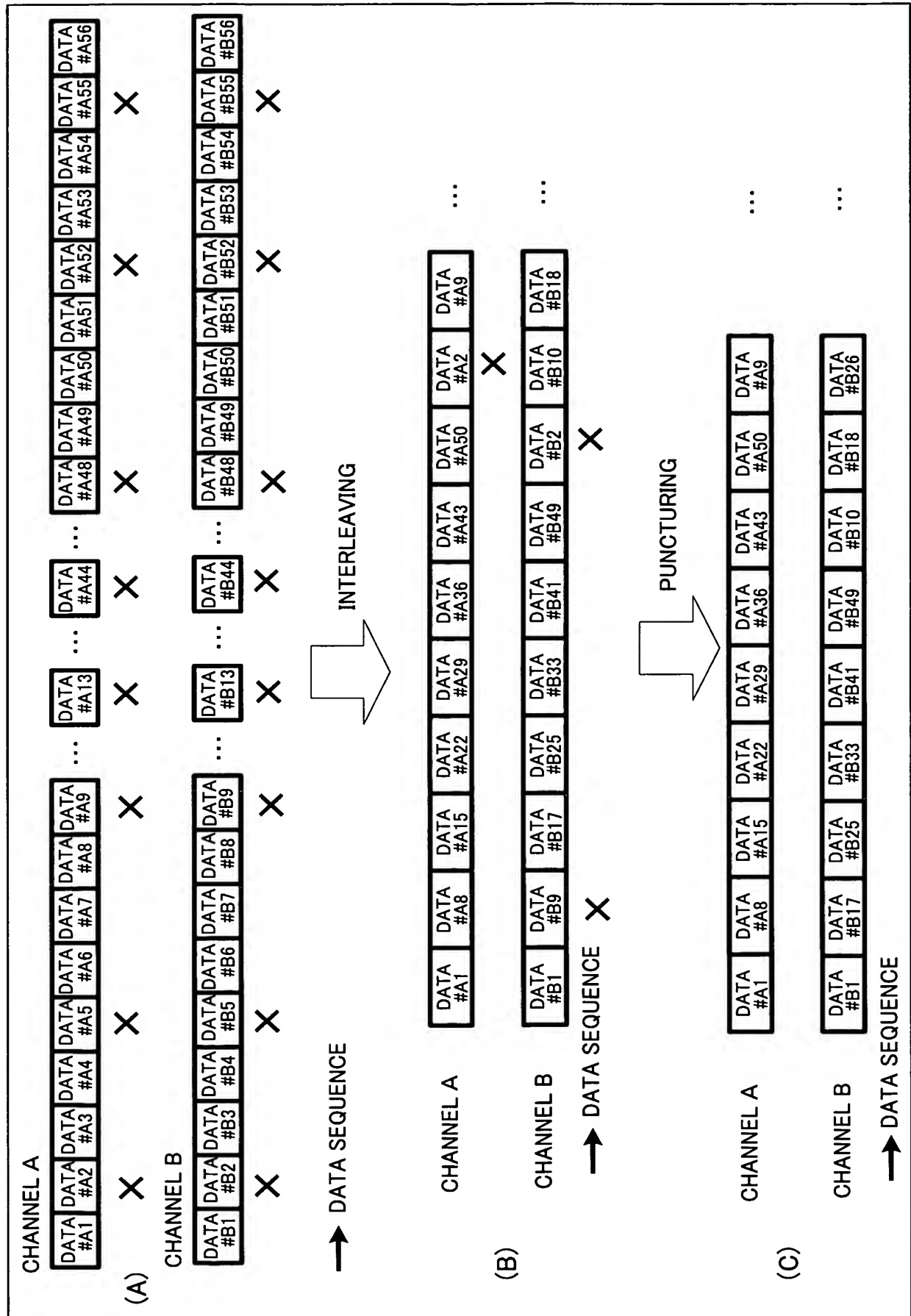


FIG.98

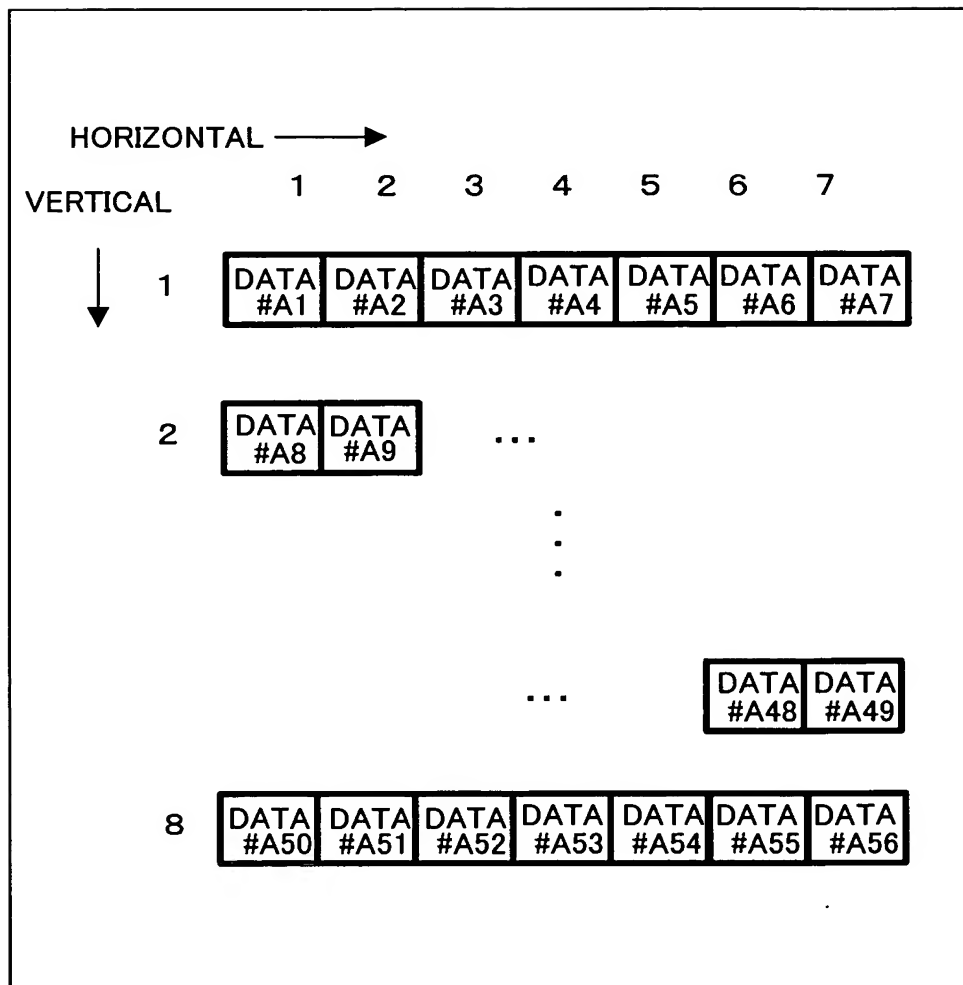


FIG.99

		ADDRESS FOR HORIZONTAL DIRECTION		ADDRESS FOR VERTICAL DIRECTION		PRESENCE/ABSENCE OF DATA (1: PRESENT 0: ABSENT)	
		m bit		n bit		DATA	
DATA#A1	1			1	1	xx	
DATA#A2	2			1	0	xx	
DATA#A3	3			1	1	xx	
DATA#A4	4			1	1	xx	
DATA#A5	5			1	0	xx	
DATA#A6	6			1	1	xx	
DATA#A7	7			1	1	xx	
DATA#A8	1			2	1	xx	
DATA#A9	2			2	0	xx	
DATA#A10	3			2	1	xx	
DATA#A11	4			2	1	xx	
DATA#A12	5			2	1	xx	
DATA#A13	6			2	0	xx	
DATA#A14	7			2	1	xx	
DATA#A15	1			3		xx	
DATA#A16	2			3		xx	
.				.		.	
.				.		.	
.				.		.	

FIG.100

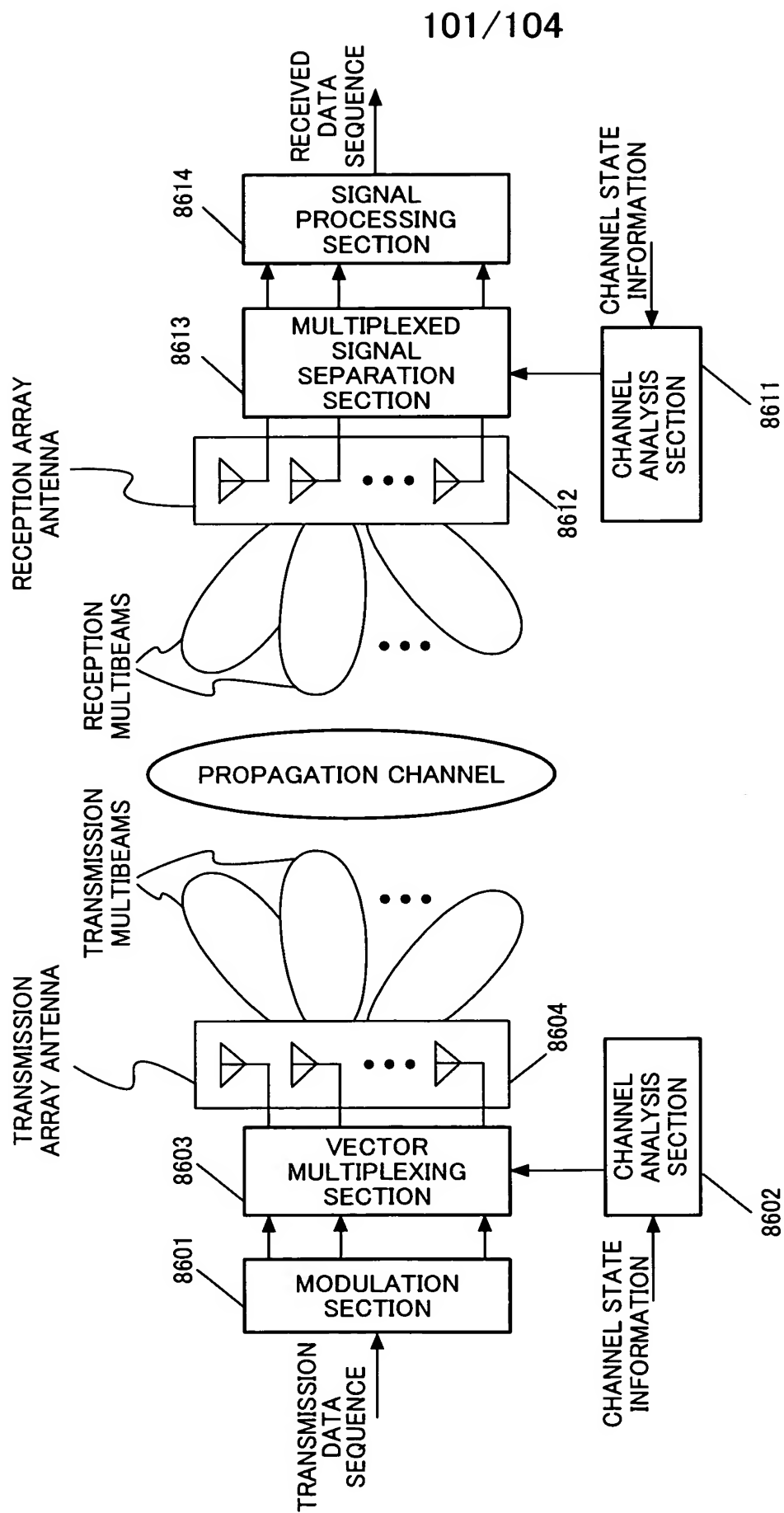
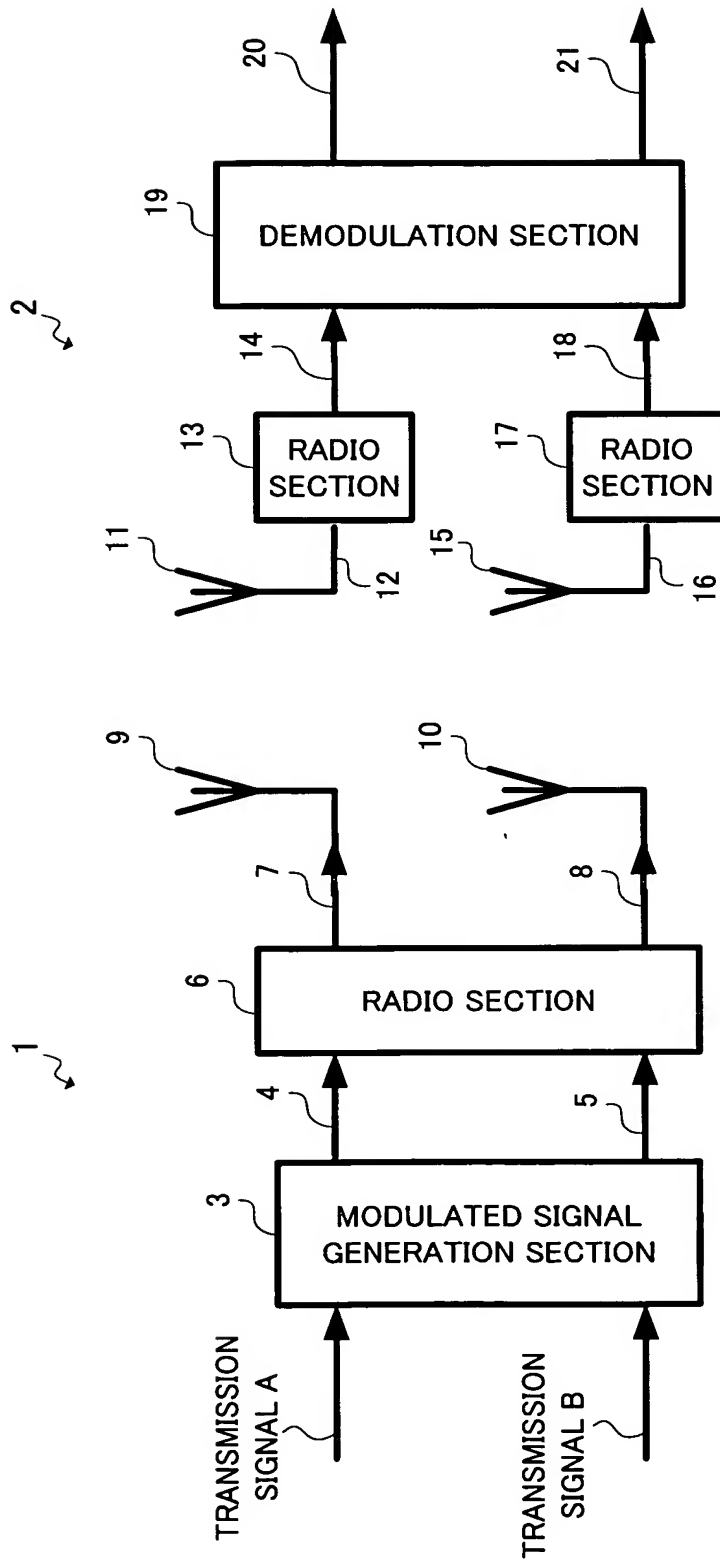
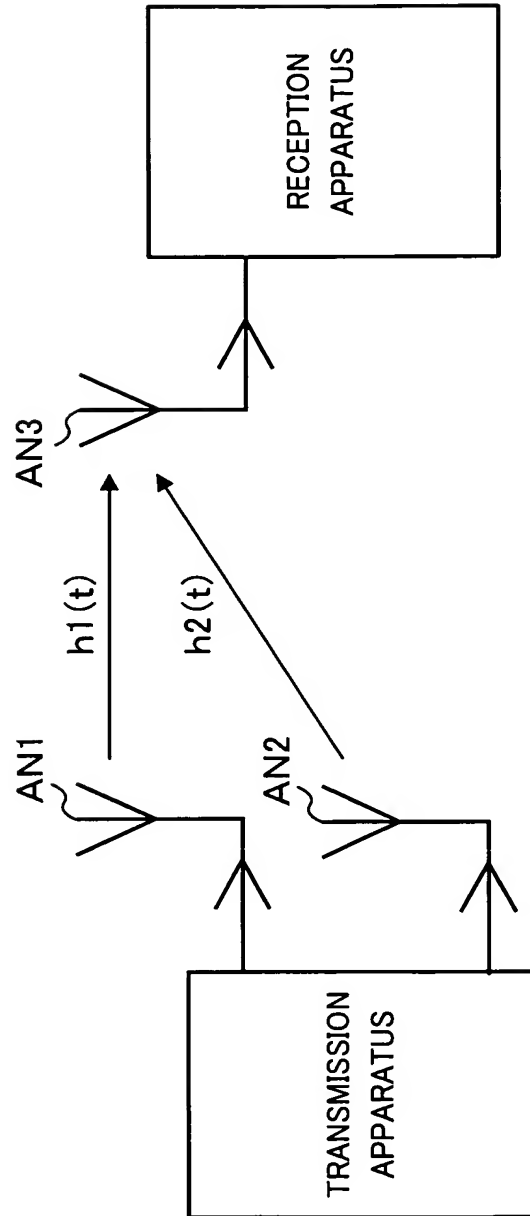


FIG.101



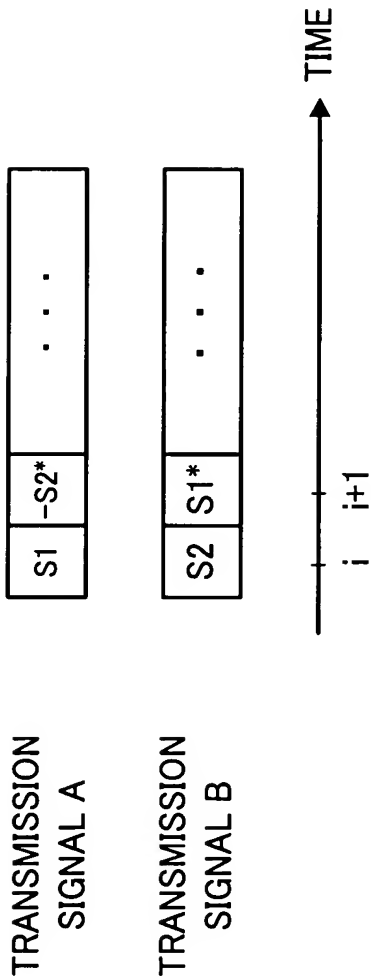
(PRIOR ART)

FIG.102



(PRIOR ART)

FIG.103



(PRIOR ART)
FIG.104